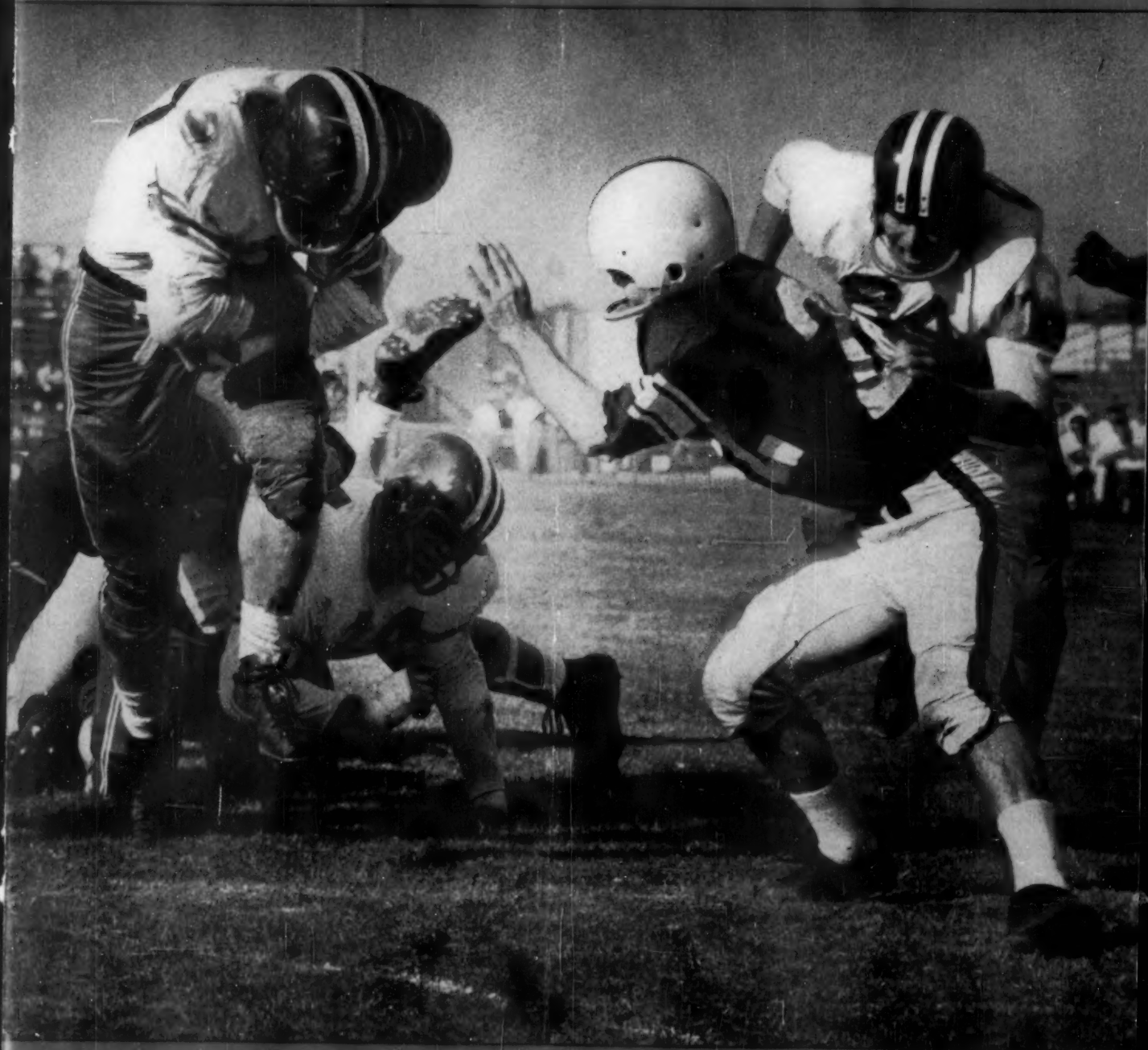


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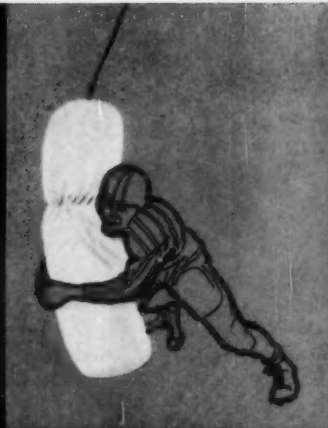
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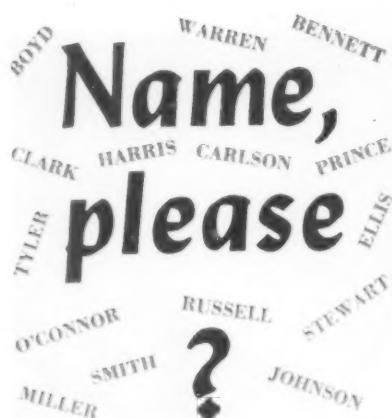
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VOLUME 27 • NUMBER 10 • JUNE 1958

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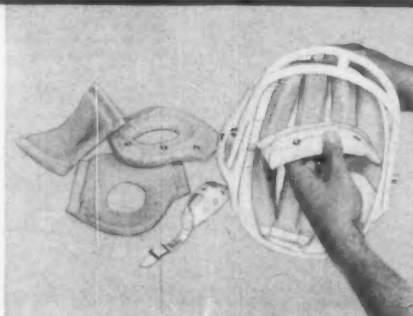
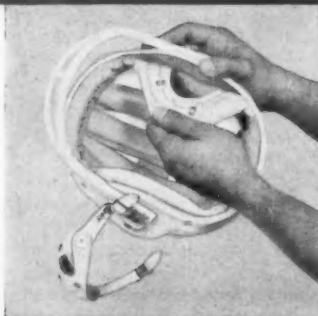
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# OFFENSIVE

## END PLAY

**T**HE end can prove extremely valuable in the operation and execution of offensive plays, and I would like to present some of the basic fundamentals we use in developing offensive ends in our single wing system.

An end has to be both a back and a lineman, and in selecting an end for our strong side, we like to have a powerful boy. Since many teams tend to load up in his zone, he needs to be 195 lbs. or more. He must possess average speed and have agility, since he pulls on some plays going to the weak side and plays left end on defense.

Our weak-side end must be one of the fastest men on the team and must possess quickness. We sometimes have to sacrifice weight at this spot in order to get the necessary speed. Both of our ends must be good pass receivers and fair runners.

An offensive end has to be taught stance and position, various types of blocks, blocking zones, pulling, pass patterns, pass-receiving techniques, ball-carrying, punt and kick-off returns. He tries to master these offensive techniques by the repetition of certain drills and basic fundamentals.

**Stance.** We use a slightly staggered stance because it seems to be the most natural. The end's feet are spaced about shoulder-width and planted straight ahead. We use toe to heel and no more because he must step for position first and then block. If he had a long staggered stance, it would be hard for him to step for position on certain blocks. It's a must for our ends to take the same stance each time, as we don't want to tip off the defense when they plan to pull or go out for a pass.

In general, we try to get our ends in a comfortable position without pointing or leaning. Though we sometimes have our ends lean one way and go the opposite, this maneuver takes experience.

**Blocking.** We start teaching our blocking fundamentals when we're reasonably certain that the ends have attained a good stance. Very few ends can block from a poor stance. In executing single blocks,

By **LOU McCULLOUGH**, *Asst. Coach, Iowa State College*



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the ends try to get position first and then drive the defensive man out of the hole. This may be contrary to some systems.

The single blocks used are the hard shoulder and the front pivot. The two-on-one blocks are the post and turn and the low and hard shoulder. Anytime the ends work on these blocking fundamentals, they always line up on the ball, take a good stance, and go off on the digit.

**Pulling.** After the ends have attained a good stance and learned certain blocking fundamentals, they begin work on pulling. We spend considerable time on pulling because it's most likely to be the block that shakes the back into the open for a long gain.

The ends use the lead type of step in pulling, with the angle of the step depending upon the hole they plan to hit. The closer the hole, the deeper the angle. Here, again, we must constantly check the end's stance because he must be on balance to prevent pointing or leaning.

A common fault is rising straight up to pull, and we use a few iron bars about four feet off the ground to help keep them low. He must keep his balance, stay low, coiled and ready to strike. He must keep low in order to block a crashing linebacker or the first man that penetrates.

If the end reaches the hole, he uses a shoulder block to root out a man directly in the hole. We prefer him to use a driving body block past the hole. When pulling up the hole, we tell our ends: *Never pass up a man, no matter how you have to block him, and do not hit one lick and go to your knees.*

#### END AS A RECEIVER

**Pass Receiving.** We work a few minutes every day on pass-receiving techniques. There are a few basic principles which we think every end should know concerning pass receiving. He must learn to get past the line of scrimmage quickly, and again we must constantly check his stance to keep him from pointing or leaning.

The end usually relies on a slight head-and-shoulder fake to put him past the line of scrimmage. He may also fake a block by going down on all fours and moving out quickly, or he may fake a block and use the roll-out. If the end still has trouble getting out, we tell him to spread.

After the end has learned to get away from the line of scrimmage, we try to teach him several maneuvers which will help him get in

#### • The end must be both a lineman and a back in

*the modern single wing system, and following are the fundamentals used in developing strong wings*

the open. The head-and-shoulder fake, change of pace, spot and hook are used.

We have the ends work on the head-and-shoulder fake more than any other stunt. They must remember to make a distinct fake and not rush it. After making this distinct fake, they must then sprint out of the fake to get position on the half-back.

Our spot passes are generally short and require an excellent maneuver, especially since many teams now use a 5-4 defense. The ends leave the line of scrimmage very fast and spot over a certain position. They do this by planting the outside foot and using the inside foot as a pivot.

After making his pivot away from the pass defender and toward the line of scrimmage, the end tries to maintain good balance and give the passer a target with his hands about shoulder high. The maneuver requires a considerable amount of repetition as it must be fast and smooth. From this maneuver, our ends use the spot-and-go or spot-and-slide.

Our hook maneuver is run deeper than our spots. Against the 5-4 and 4-4, we use it much more than our spot maneuver. The end leaves the line of scrimmage at full speed for 10 to 12 yards. As soon as he reaches this position, he makes his hook to the inside or outside depending on the defensive halfback.

When he starts his hook, it should put him about two and one-half yards to the left or right facing the passer with his hands shoulder high. The ball should be on its way as soon as the end is facing the passer. From this, we use the hook-and-go or the hook-and-slide.

The last maneuver—the change-of-pace—is used on defensive backs who play too close to the line of scrimmage or who have below average speed. The end starts down the field at about half speed, and then puts on a burst of speed to get behind the halfback. We also use the change-of-pace maneuver in covering kickoffs and punts to avoid blockers.

A drill which includes all of these stunts is used in our preliminaries each day. We call our right ends up and say, "Spot right going down and spot left coming back." As the signals are called for them to move

out, the left ends line up to do the same thing.

After completing our spot, we say, "Hook right going down and hook left coming back." Then they are told, "Fake right going down and fake left coming back." In this drill, we work on stance, form running, spots, hooks and fakes. Executing a good maneuver and sprinting out of it for at least seven yards is stressed.

The most important point in pass receiving comes after the end is in the open; and that is catching the ball. When the ball is located, the end must watch it until the pass is completed. It's a common practice to hear "footsteps" or to turn for a glimpse of the defensive halfback. This usually means an incompleting pass.

Pass receivers should be relaxed and should concentrate on the ball while it's in flight. The catch should be made with the hands as in baseball. Upon receiving the ball, the end must tuck it away in the proper ball-carrying position because receivers are often tackled hard just as they make the catch, especially on spot and hook passes.

Receivers should be taught the value of running angles to get into the open, and going for the ball must always be stressed. Many ends think the pass should be perfect, and if it's overthrown or too short they have a tendency to give up. By fighting for the ball or giving a little more effort, an end may complete the pass or at least prevent an interception.

A drill we consider one of the best for developing pass receiving is what we call "The Sorry Pass Drill." We line the ends up in their normal position, one behind the other. The coach has two or three balls available and stands in the passer's spot.

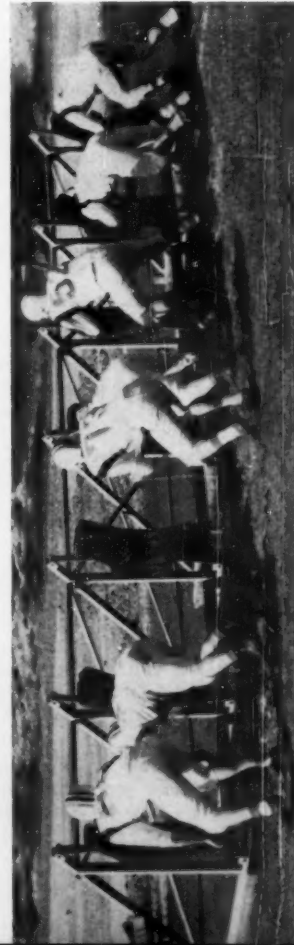
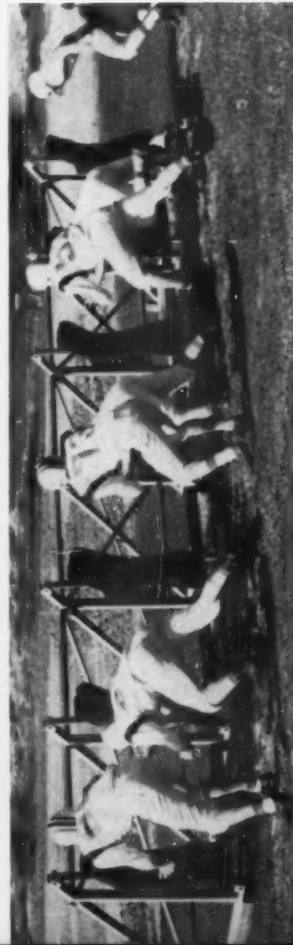
One end goes at a time and looks over his inside shoulder on the second step. The coach throws the ball high or very low, hard or soft, end-over-end or spiral. Then we spot and throw the same *sorry* passes. We find that this makes our ends watch the ball into their hands so that they never worry about the type pass thrown to them in a game. No two passers throw the ball alike.

**Decoys.** Another vital part of pass receiving is the decoy. If the decoys loaf and slack their fakes, there's little chance of a pass completion. We try to eliminate this by throwing—  
(Concluded on page 20)

# SINGLE WING OFFENSIVE

## LINE BLOCKS

By **BOB HICKS**, Assistant Coach, Indiana University



**O**UR basic blocks have remained pretty constant the past few years for the simple reason that they are sound and have proven successful. Our blocks can be arranged in three general categories.

1. Blocks that remove a man from the hole in which we want to run.
2. Retaining blocks which hold a man on the line of scrimmage when it isn't necessary to move him out of the hole.
3. Open or downfield blocks.

We've always believed in spending a great deal of time on fundamentals. For linemen, this means blocking and blocking until some degree of perfection is achieved. Since Spring practice has been limited to 20 days, we don't get the sharp, crisp and perfected blocking we like—but we still work toward that end.

The time allocated to group work in practice sessions is spent on teaching and perfecting the blocks

and position is predicated on good stance. That's why we always stress stance in our daily practice.

We like our linemen to stand with their feet as parallel as possible. This is almost a necessity in our system since our guards pull so much to the left and right. We allow our tackles to stagger, but never more than heel and toe.

When our linemen put their hands on the ground, their heels rise slightly from the ground with the weight on the balls of the feet. If they stagger slightly, the weight will be distributed over the ball of their front foot and the toes of their back foot. We like a lot of coil in the legs and very little weight on the hand. Thus, the back should be just about parallel with the ground. The shoulders should be higher, if anything.

We find this to be fairly comfortable, on balance, and a good position in which to move in all directions. Using this as a basis for

we believe in. They are listed under the three categories as follows:

teaching, we allow our linemen to make individual adjustments until

the time allocated to group work in practice sessions is spent on teaching and perfecting the blocks

position in which to move in all directions. Using this as a basis for

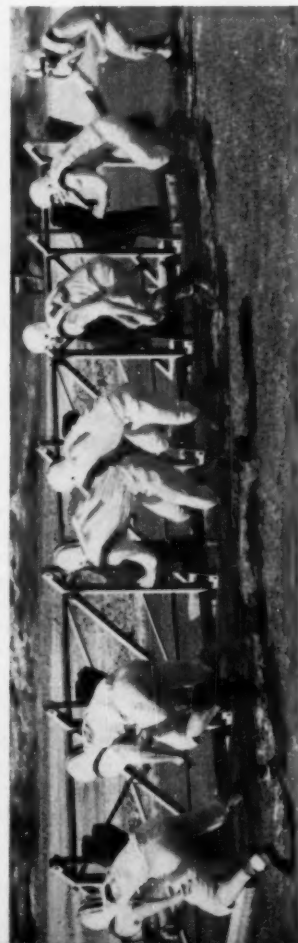
we believe in. They are listed under the three categories as follows:

1. (a) Hard shoulder block.  
(b) Post and turn block.  
(c) Hard shoulder block and low block.  
(d) Wedge block.
2. (a) Front pivot block.  
(b) Reverse pivot block.
3. (a) Crossbody block.  
(b) Reverse body block.

In all our blocks, we try to get position on the defensive man first, and then make the block. Sometimes this is impossible, but we still emphasize the importance of position then blocking. We want our boys to know what we're trying to accomplish with our blocks. Next we want them to know how to make the block, and then we want them to block.

To be a good blocker, a boy must be in excellent shape. He must be agile, quick reacting, and put 100% into the block. That's one reason we stress conditioning so much. In discussing our blocks, I'll try to point out some of the fundamentals we emphasize.

**A Good Stance** is very important since it constitutes the beginning of a good block. We always like to get position on the man, then block;



teaching, we allow our linemen to make individual adjustments until they're comfortable and on balance.

#### ANALYSIS OF BASIC BLOCKS

1. (a) **Hard Shoulder Block.** All good blocking is predicated upon being on balance and in command of the situation. Balance comes from good stance and a comfortable position.

In executing the hard shoulder block, we want the offensive man to have a "bull neck" and shoulders square. If he's blocking with the left shoulder, the left arm should be extended to form a good right angle with the neck. The left forearm should come back to the chest to afford a large blocking area, which makes it easier to control the defensive man.

In blocking, we want the shoulders higher than the hips and the hips under control at all times. The legs must have a good bend to them, since it's this coil that produces the power on the first step to get the defensive man's momentum going in the direction the blocker so desires.

The blocker wants to step into the block, not lunge. Upon contact, he shouldn't brace but continue to  
(Continued on page 50)

## DEFENSIVE HIT AND REACTION DRILL

Representing the *ne plus ultra* in modern drill patterns, drills such as these teach the defensive team to hit, react, and pursue. At South Carolina, this drill is executed against an anchored seven-man sled. Seven men assume defensive positions in a specific array of linemen and linebackers designated by the line coach standing behind the sled (see last picture). In this particular drill, as you can see by the first picture, the coach has called for a three-four alignment. At his signal, the three linemen and the two right linebackers drive into the sled while the two left linebackers chug in place. They maintain contact with strong shoulder and leg drive until the next signal designating the pursuit pattern. Then they peel off and pursue the play in the designated direction. Both the player alignment and charge pattern can be changed at will, and constant work on this drill is bound to develop that all-important coordinated defensive charge.



## Standardizing Defensive

**I**N THEIR work on defense, coaches spend considerable time developing stance, charge, and pursuit. This is fine—as far as it goes. Unfortunately, the perfection of these techniques becomes of little value if the team isn't prepared to systematically compensate for all offensive formations.

The trend in defensive football is to use one or two defenses, but to use them well. The reason for this is simple—it's almost impossible to

teach players to adjust several defenses to the 30 or more popular offensive formations.

Also, modern rule blocking has greatly nullified the problem of multiple defenses, and the multiple-minded defensive coaches are discovering that they're only confusing themselves.

To bear out this point, let's assume a team employs six defenses. Simple arithmetic allows us to conclude that this might involve 180

adjustments for each player (6 defenses versus 30 offensive formations) or a total of 1,980 adjustments for the team. (180 individual adjustments x 11 players.)

Professional teams have pioneered the philosophy of using few defenses, but using them well. A good example of this was the 1947 Green Bay Packers, of which the writer was a member. The Packers employed two defenses, the 5-4 and a goal-line defense, and yet compiled the finest defensive record in the League.

The key to our success was simple: We were able to master the few defensive weapons we had against all formations.

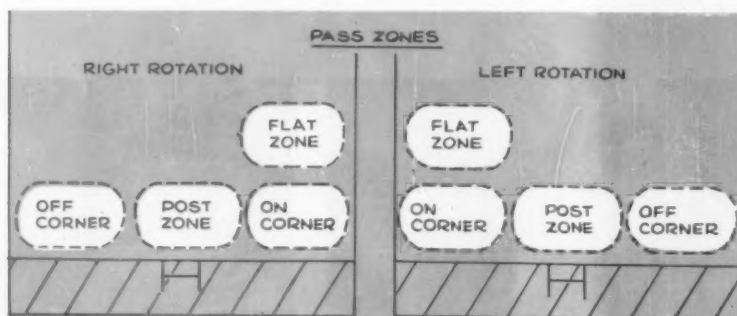
In developing the adjustments at Santa Barbara, the Oklahoma defense has been utilized together with the following principles to determine the soundness of the adjustments:

1. Balance power with power.
2. Standardize the alignment and responsibilities of the inner linemen (tackles, linebackers, middle guard).
3. Never allow a player to be out-flanked unless:
  - (a) He can beat the flanker across the line of scrimmage.
  - (b) He has a teammate on the outside of the flanker.
  - (c) He has a teammate who can beat the flanker across the line of scrimmage.

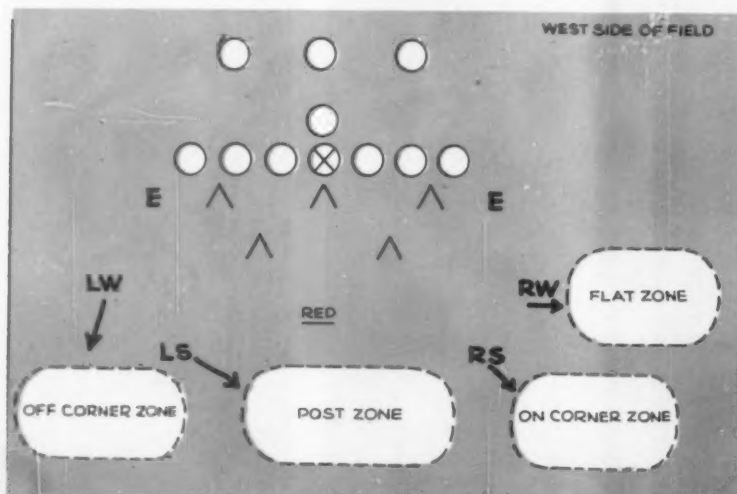
4. The secondary must be in position to effectively pursue with the flow of the play.

5. If a conventional T formation appears, the secondary must have a pre-determined pass zone.

Principle No. 2 states that the inner linemen's responsibilities are standard, regardless of the formation. With this in mind, we can assume that it will be the ends and secondary that will make the adjustments. The adjustments are developed by first creating rules and rotation terminology for a conventional T formation, and then for the



Diags. 1-2: Dividing the pass zones, right rotation and left rotation



Diag. 3: Defensive call "Red" denotes secondary rotation to right



# Adjustments

other possible formations.

In developing our rotation terminology, *Red* is designated when the secondary rotates to the right. The meaningfulness of *Red* is that the *R* designates right. *Green* for a rotation to the left is a good contrasting color, even though it doesn't begin with *L* for Left. *White* is used to denote four drop-back zones—no rotations. *White* is selected because of its neutrality (**Diag. 6**).

In dividing the pass zones, one must visualize a football field in front of him. If the rotation is to be right (*Red*), there's a flat zone, an "On" Corner Zone (on signifies on the rotation side), a post zone which refers to the deep middle or toward the goal post, and an "Off" Corner Zone—off corner being the zone away from the rotation (**Diags. 1 and 2**).

## Three Defensive Calls:

*Red* designates a pre-determined secondary rotation to the right if a pass develops. The right wing has the right flat zone; the right safety, the on corner zone; the left safety, the post zone; and the left wing, the off corner zone. *Red* is generally called when the right side of the field is the wide side (**Diag. 3**).

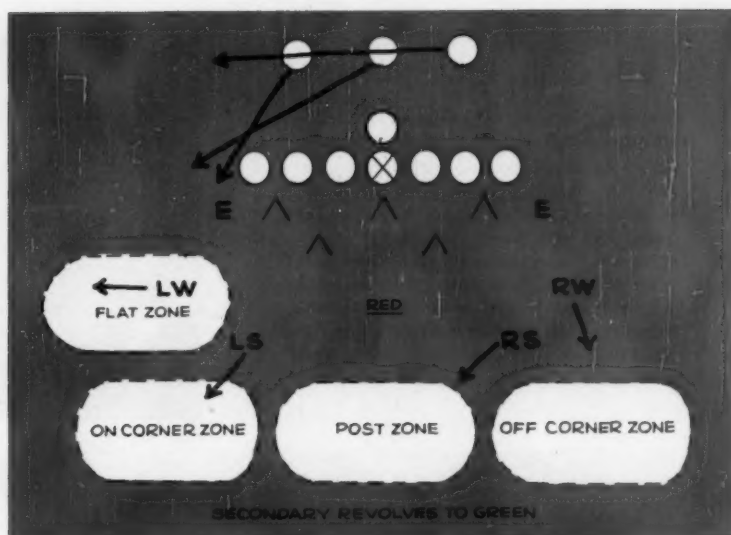
If *Red* is designated and the flow is to the left, the secondary revolves to *Green* (**Diag. 4**).

*Green* designates a pre-determined secondary rotation to the left if a pass develops. *Green* is generally called when the wide side of the field is to the left (**Diag. 5**).

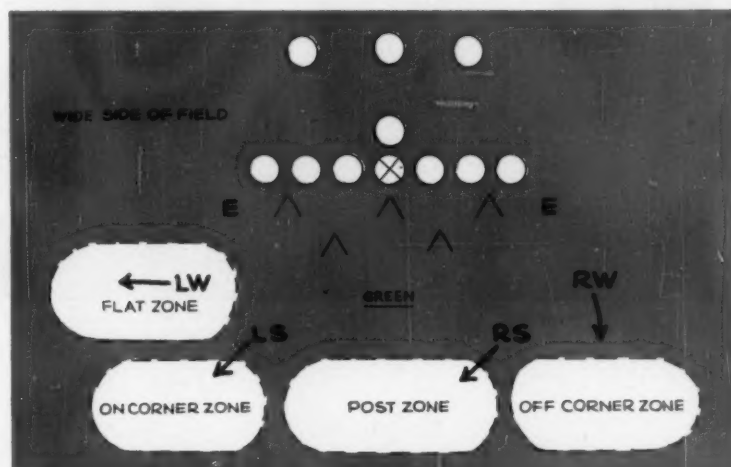
*White* designates no pre-determined secondary rotation. *White* is generally called when the ball is in the middle of the field. If a pass develops, the secondary drops back in four zones (**Diag. 6**).

**Rules for Changing the Pre-Determined Color Calls:** Regardless of the pre-determined color call, the secondary rotation must be altered if the formation isn't a conventional T and if the pre-determined call

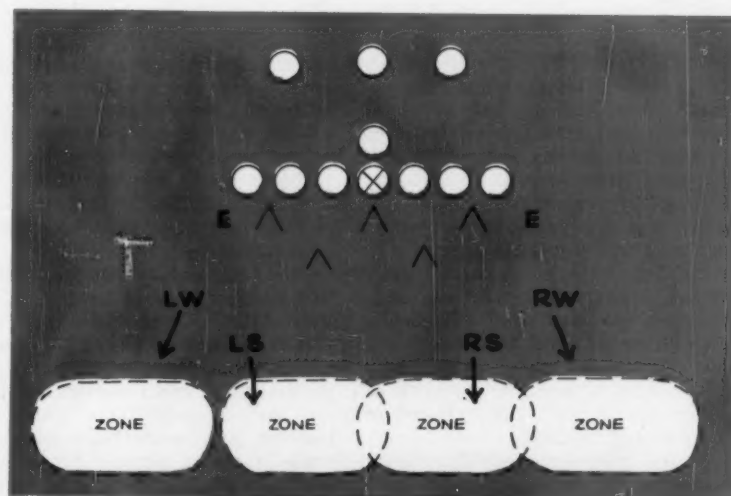
(Continued on page 42)



**Diag. 4:** When flow is to left on "Red," secondary revolves to "Green"



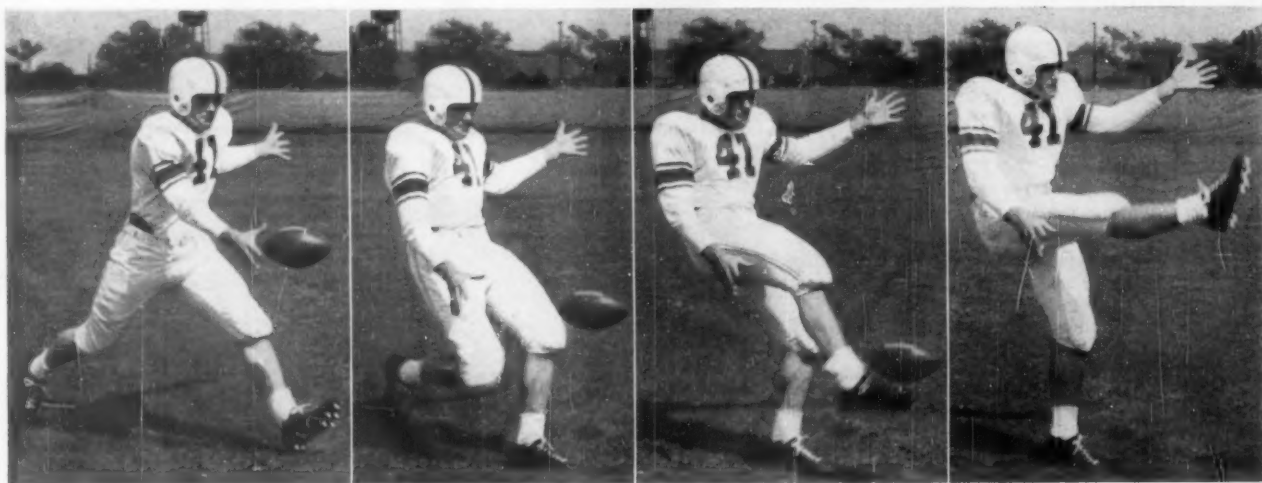
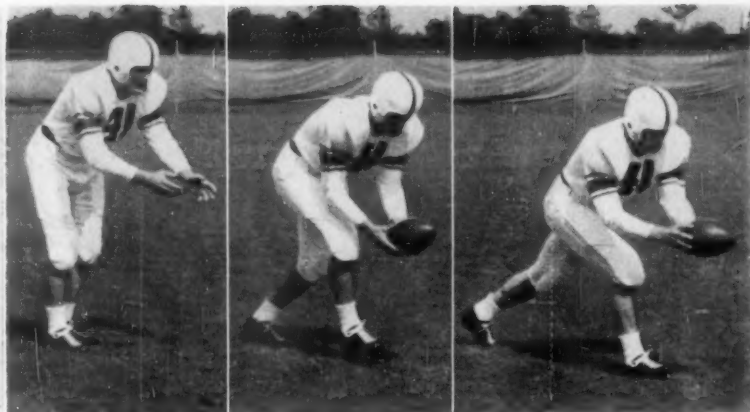
**Diag. 5:** Defensive call "Green" denotes secondary rotation to left



**Diag. 6:** Call "White" designates no pre-determined secondary rotation

## BUCK McPHAIL PUNTING

Major points to observe: (1) semi-erect stance with kicking foot a bit advanced, (2) extension of arms with fingers spread and relaxed, (3) fingering of ball into position with right hand to rear and left hand toward front, (4) short step with right foot and normal step with left, (5) whip of foot into ball with knee bent, (6) snap-out of leg with toe pointed, (7) meeting ball on instep about knee height, (8) keeping eye on ball from start to finish.



## Simplified Multiple Pass

**U**P UNTIL 1956, having rarely had a good passer at Portland State College, our offensive thinking had mostly been centered around the running game. That fall we were lucky enough to come up with an exceptional passing quarterback, and we promptly set about capitalizing upon his talents.

To exploit this boy's passing ability, we adopted the "tree" set-up—adding "branches" and numbering each "branch." This both standardized our passing routes individually and opened a multiple network of patterns with very little chance of error in any of them.

At the same time, we eliminated the danger of having two or more receivers in the same place at the same time. Since loafing decoys do

not contribute to your passing game, the receiver for whom the pass was intended wouldn't necessarily be aware he was being considered as the principal receiver by the quarterback. Each eligible receiver had the responsibility of freeing himself for the pass, thus becoming a realistic decoy.

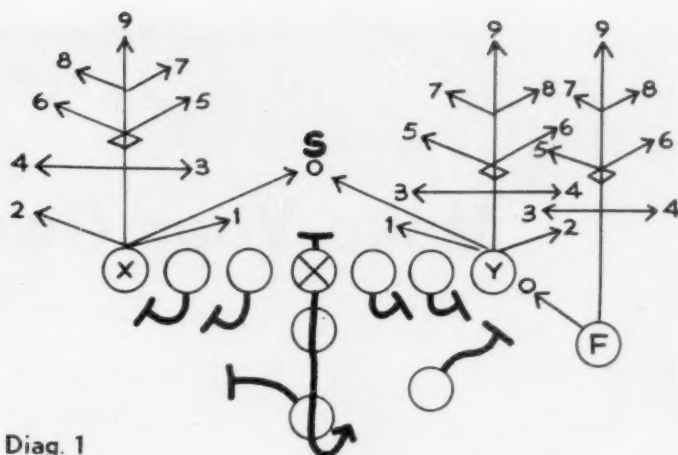
Our basic pass routes were set up and numbered as in **Diag. 1**, X denoting the left end, Y the right end, and F the flanker (whenever used).

Note that the odd numbers are on the inside and the even numbers on the outside. This particular method of numbering—odd and even—made it simpler for the receivers who were assigned to either side of the formation.

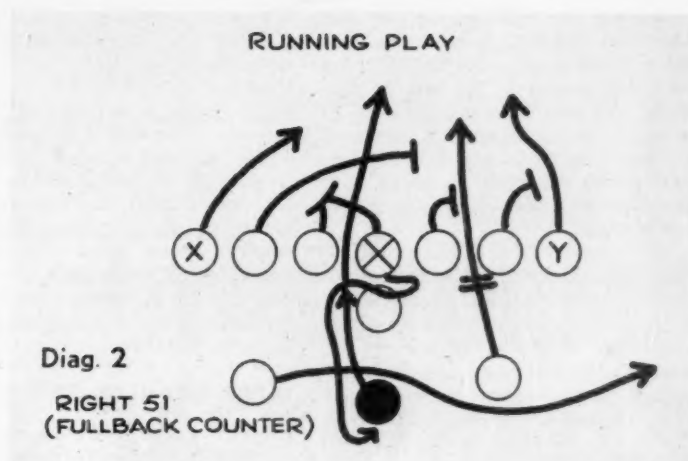
In numbering our pass plays, the

first digit referred to the left end, the second digit to the right end, and the third digit to the flanker, regardless of the side he was assigned. Thus, if the flanker was set right and the quarterback wanted the left end in the right flat, the right end straight down, and the flanker deep outside right, he would simply call 3-9-8, the starting signal, and break.

Note that we have omitted the X and Y. X or Y was called only when special attention to a specific pattern was needed. (Note **Diag. 4**.) Incidentally, these basic patterns were used for the straight drop-back type of passing. We used running passes off the running game, as in **Diags. 2 and 3**, which made it necessary to have receivers memo-



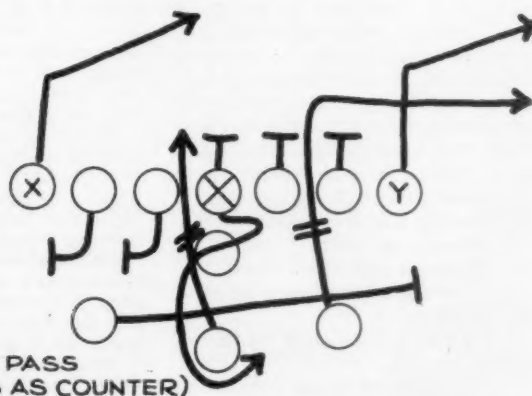
Diag. 1



Diag. 2

RIGHT 51  
(FULLBACK COUNTER)

### TYPICAL RUNNING PASS



Diag. 3

RIGHT 51 PASS  
(APPEARS AS COUNTER)

By RALPH DAVIS

Physical Ed Dept.-Former Head Coach, Portland State College

## Patterns

size their particular assignment.

We found that some confusion between the running pass and the drop-back pass prevailed because of the similarity in numbering. We had originally planned to differentiate between the drop-back and the running pass by placing the word "pass" prior to the number on the drop-back, and following the number on the running pass. Example: Pass 51 and 51 Pass.

Other methods of differentiating between the two types of passes were experimented with, all of which appeared to be awkward. Our main objective was to adopt a method which would reduce the chances for error to a minimum.

We finally agreed upon using a  
(Continued on page 46)



- By working on the 10 vital phases of the game,  
you can reduce your critical errors to a minimum

## Make Your Own Breaks!

**M**ANY TIMES in my 14 years of football coaching, I've heard players, coaches, and fans exclaim: "Aw, we would have licked them but they got all the breaks." What coach hasn't alibied at least a dozen defeats with some such remark?

During the 1956 season, we lost two heartbreaking games. One was by a 25-26 score, with the winning td being scored in the last 29 seconds; and the other was by a 13-15 score, when our opponents recovered a fumble on their own 38-yard line and drove 62 yards to score with just four seconds left on the scoreboard clock.

As I prepared for fall practice last year, I thought a great deal about those two games. I had to admit that both games were lost because of inexcusable mistakes which set up several touchdowns; and I determined to make sure that my 1957 squad would understand these mistakes and by emphasizing them in our chalk-talks and drilling on them in our everyday practice sessions, we would attempt to make these breaks come our way more often than not.

In our football notebook, I outlined what I believed to be the 10 most important mistakes in football which we were going to work to prevent. I brainwashed our boys into believing that these were the errors which eventually led to the "breaks" which had been going against us so many times the past several years.

1. Losing the ball on fumbles.
2. Having a kick blocked.
3. Missing an extra point.
4. Having a pass intercepted.
5. Allowing a long run to be made against us.
6. Having a long pass completed against us.
7. Not scoring when inside our opponent's 10-yard line.
8. Never losing yardage on a scrimmage play.
9. Not being penalized.
10. Getting poor center snaps on punts or extra points.

You'll notice that the first eight mistakes are those which your op-

ponents can be forced into committing, while it's practically impossible to legally cause a good team to commit errors nine and ten.

I decided to emphasize the advantages of causing our opponents to make the same mistakes we were working to avoid, and I also made it clear that although we could never hope to eliminate all the aforementioned mistakes we would win more than our share of close games if we could make these mistakes less frequently than our opponents.

We prepared many drills designed to prevent these 10 errors, and at the same time worked on drills aimed at inducing the opponents to commit these same mistakes. We kept a complete set of statistics for every game, showing us how we fared against our opponents in these all important 10 phases of the game.

### LOSING THE BALL ON FUMBLES

In our nine games, we fumbled a total of 28 times, with our opponents recovering 13 of them. I might mention, to show how close games are lost, that in the only game we dropped, we fumbled six times and lost the ball on five occasions.

Our nine opponents fumbled 43 times and we recovered 28 of them. So it can be seen that we not only held on to the ball better than our rivals, but were able to gain possession over twice as many times as our opponents when they fumbled.

We used several drills to emphasize holding on to the ball. One was the gauntlet drill. This is a popular drill where two lines of players try to tear the ball from the grasp of a carrier as he runs through the lines. We did a lot of head-on tackling, from a distance of two or three yards. This was done to give our backs practice covering the ball with both arms when being hit head on.

We also had our backs carry a ball under their arm when running through the tires and while running wind sprints.

We used the conventional drills to practice recovery of fumbles. We taught the players first how to fall on

and cover a loose ball. Then we used two lines of boys, competing against each other, trying to recover a ball tossed by a coach. We also used three and four boys going after a loose ball rolled along the ground by a coach.

Probably the most popular drill was one in which we paired the backs against the linemen. We put a back and a lineman flat on their backs, arms at their sides, and placed a ball a distance of three to seven yards away from their heads. When the coach yelled "Fumble!", the players would roll to the outside, scramble to their feet, and fight each other in an attempt to recover the ball.

We encouraged legal pushing, shoving, and blocking in the attempt to gain possession. The boys enjoyed this and we would sometimes make the losers run laps after practice. We felt that this drill had a lot to do with our success in recovering 28 enemy fumbles.

### HAVING A KICK BLOCKED

We had just one kick blocked during the season, and the opposition didn't even partially block any of our other punts. I might add that the only kick we had blocked occurred in the game we lost. Fortunately, it came just before the half ended and no serious damage resulted.

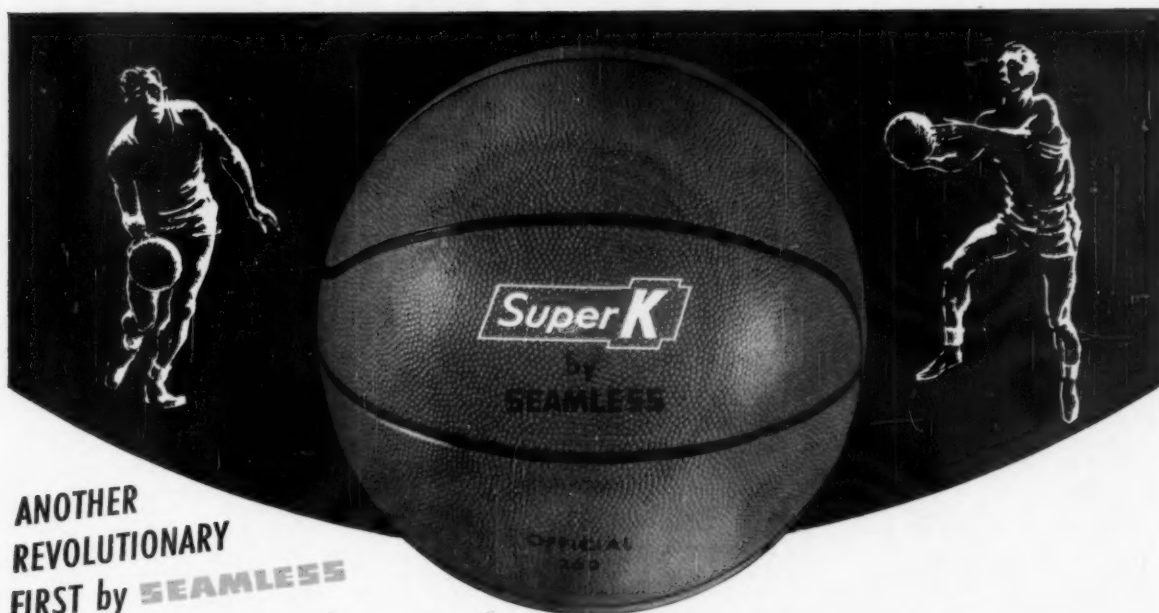
On the other hand, we blocked four kicks and partially blocked five others. One of the games we won 7-0 was won in the last quarter when we blocked a kick and recovered on the other team's one-yard line. We scored the only td of the game from there. Three of our other tds last year resulted directly from blocked or partially blocked kicks.

We drilled constantly on punt protection. Never a week went by that we didn't spend one day on punting under game conditions with a defensive team trying to block the kick. We felt that the 10 or 15 minutes body contact one day weekly was well worth the few bruises which might be incurred.

Usually when we drilled on punt protection, we'd spend another 10 or 15 minutes with our defensive team rushing against our second or third team. We practiced our set plays to block kicks, such as pulling protecting linemen, crashing one or two linebackers, and overloading the line—at the same time setting up the screens we use on punt returns.

By **HARRY E. CLARKE, Jr.**  
Coach, Reynoldsville (Pa.) High School





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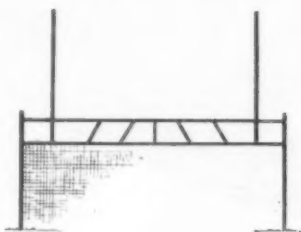
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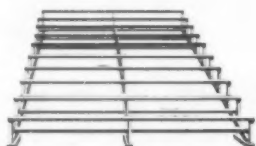
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One of the better punt blocking drills we've used in our pre-season practice sessions goes as follows: We line up our best center and either a coach or one of the players who isn't a punter in the kicking position.

The object is to have our defensive players charge the kick correctly—covering the face with crossed arms, aiming for the right spot in front of the kicker—and to get the actual feel of blocking a kick.

We line up one or two of our defensive players in their proper position on the line of scrimmage, with no one in front of them. When the ball is snapped, the rusher counts out loud a "thousand and one, a thousand and two," and then crashes in and tries to block the kick.

## MISSING AN EXTRA POINT

We scored 21 tds last season and tried to kick the extra point after each, being successful 14 times. Of the seven missed, four were kicked high enough but too wide. Of the other three not made, two were blocked—one because of a poor snapback and the inability of the holder to get the ball on the tee in time for the kicker to have a fair opportunity to get the ball into the air, and the other because the snap was so bad that the holder was smothered before he got the ball on the tee.

Our opponents scored five times, kicked one extra point, ran two over, and we blocked one placekick and batted down one pass attempt.

We spent considerable time with our placekicker and holder. They kicked, together with our center, at least 20 extra points every evening. We also spent one night a week with a defensive team trying to crash through our extra-point protection.

We feel safe in saying that the three attempts not made because of the poor snapbacks, wouldn't have been blocked if the snap had been good. So our extra-point protection was just about perfect.

## HAVING A PASS INTERCEPTED

We tried a total of 79 passes in our nine games and had just four intercepted. Two of these were in one game, and in both instances the interceptor was downed without a return. Of the other two, one was intercepted in the left flat and returned 51 yards where the runner was brought down from behind.

The remaining interception occurred in a game which we won 38-13. We had our third team in the game, the score was 25-0, and our qb threw a flat pass which was picked off by a linebacker and returned 65 yards for a td.

Our nine opponents threw a total of 99 passes, and we grabbed 18 for interceptions. These were returned a total of 238 yards. One was returned 39 yards for a td in a game we won 21-0.

We drilled several times a week on pass offense and defense. Most of the

drills were skeleton affairs where only the center, offensive ends, backs, and the defensive secondary were used. We rotated our offensive and defensive personnel so that both had the opportunity to catch passes and defend against them.

One reason for the few interceptions against us was the fact that we emphasized overthrowing the intended receiver whenever he was closely defended. We'd rather waste a down than give the opposition a chance for an easy interception.

## ALLOWING A LONG RUN

We spent much time with our defensive linemen in pursuit drills. We also stressed pursuit by the defense in our scrimmages. Our secondary became very adept at containing the opponents, and many of our tackles were made by chasing linemen.

Another thing we continually reminded our squad was that all our games were filmed, and that whenever an opposing runner was downed we wanted to see as many of our defensive team in the picture as possible.

Our success can be seen in the following statistics: Our opponents ran a total of 322 scrimmage plays, excluding punts or passes, and just 21 were successful in making 10 yards or more—with just four going over 20 yards. One of these four was a run of 30 yards which accounted for the td scored against us in a game we won 14-7.

Our team ran a total of 343 plays from scrimmage, exclusive of punts and passes, and had 51 runs of 10 or more yards. 17 of these were over 20 yards, and six of them were for gains of 33, 25, 54, 44, 86, and 32 yards.

Although our opponents ran almost as many plays from scrimmage as we did, the fact that we were usually able to contain the gains to several yards and were able to hold for downs when the occasion demanded, kept the opposition from seriously threatening our goal line more than once a game in eight of the nine games we played.

## NOT HAVING A LONG PASS COMPLETED

Of the 99 passes thrown against us, 24 were completed—none were for tds! This is an achievement in itself. The 24 completions gained a total of 242 yards. But more important, only two of the completions gained more than 20 yards—one for 20 yards, and the other (a screen pass) for 22 yards.

We felt that our secondary did a fine job of keeping the potential receivers in front of them at all times. We stressed this in all our pass drills. We were willing to give up the short completions because we felt that sooner or later we could intercept a short pass or hold the opponents for downs, whereas one completion behind our secondary usually meant a touchdown.

In the nine games we played, only  
(Continued on page 48)



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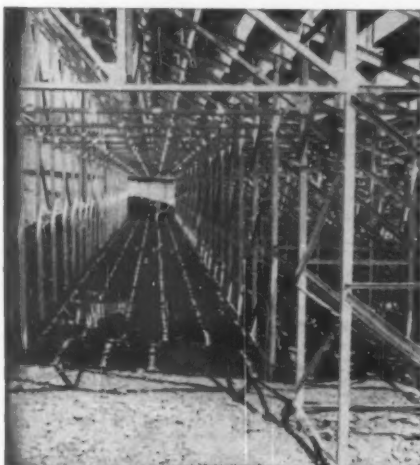
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## Offensive End

(Continued from page 7)

ing to the decoys in our passing drills and while practicing pass defense. Last season our decoy men scored several touchdowns for us.

After completing a certain pass in a halfback's zone a few times, you'll often find him disregarding the decoy in order to break up the pass. This is the time to hit the decoy for a sizeable gain. *Every man who leaves the line of scrimmage on a pass play is a potential receiver.*

**Ball-Carrying.** It's one thing to catch a pass and another to run after the catch. Ends also handle the ball on the end-around play and sometimes carry the ball on short kickoffs. They must learn to receive the hand-off and make certain fakes on the end-around play, and must also be able to throw the end-around pass. That alone involves plenty of work.

## FUNDAMENTAL DRILLS

We use certain drills to teach such basic fundamentals as the correct way to carry the ball, how to switch the ball from one arm to the other, the stiff-arm sidestep, and driving for extra yardage. A drill that has helped our ends run as well as tackle in the open field is something similar to "Burma Road."

We station our left ends about seven yards apart in a scattered position, numbering them one through five, while deploying our right ends in their offensive position, one behind the other. A short pass is thrown to the right end and he must run past the first defensive tackler.

If the end goes to the right side, he uses his left shoulder or stiff arm to get past the tackler, keeping the ball tucked away in the right arm. If he goes to the other side of the tackler, he does the opposite. We don't want the end to try and run directly over the tackler.

After the end is tackled by the first man, he jumps up and goes to number two where he might make a different running maneuver. After all the right ends go through this, we then put them on defense and let the left ends run with the ball.

This is a good conditioner as well as a developer of ball-carrying and open-field tackling. The reason we mention ball-carrying is that this phase of end play is too often overlooked.

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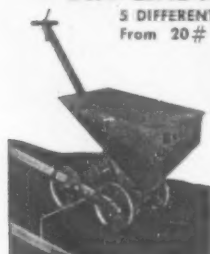
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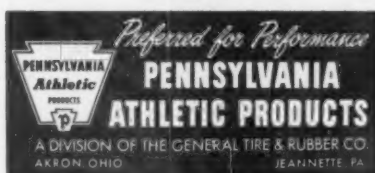
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(See special listing under Shoes)

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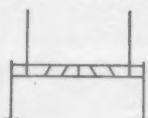


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Game-Time, Inc. (goal posts)  
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O-C Mfg. Co. (knee and elbow guards and  
caps, anklets, protective cup and sup-  
porter, ankle wraps)  
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guard)  
Pecolite Equipment Co. (protective gear)  
J. E. Porter Corp. (metal goal posts)  
Pla-Saf Co., Inc. (face guard)  
Precision Athletic Goggle Co. (goggles)  
Program Aids Co. (magnetic coaching kits,  
ERASO posters and charts)



Protection Equipment Co. (protective  
equipment)  
John T. Riddell, Inc. (safety suspension  
helmets)  
Safe-Play Goggle Co. (shatterproof glasses)  
Smith & Waite (knee braces)  
Snitz Mfg. Co. (tote bags for uniforms)  
A. G. Spalding & Bros. (field markers,  
referee's horns and whistles, kicking  
tees and toes, knee and elbow pads)  
Tuffy Pad Co. (pads for football blocking  
machines)  
Vetrex Co. (mouth protectors)  
W. J. Voit Rubber Corp. (kicking tees,  
mouth protectors, sideline markers)  
Wilson Sporting Goods Co. (shoulder,  
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### Complete Equipment

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Mill-Mont Co. (mouth guard)  
O-C Mfg. Co. (hand wraps, protective cup  
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A. G. Spalding & Bros.  
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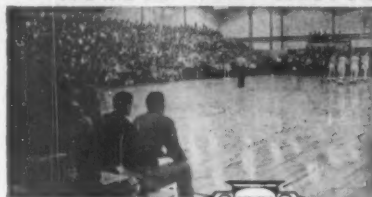
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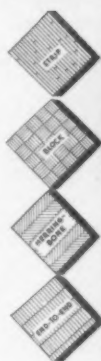
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Nissen Trampoline Co.



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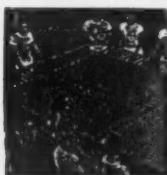
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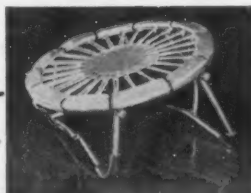
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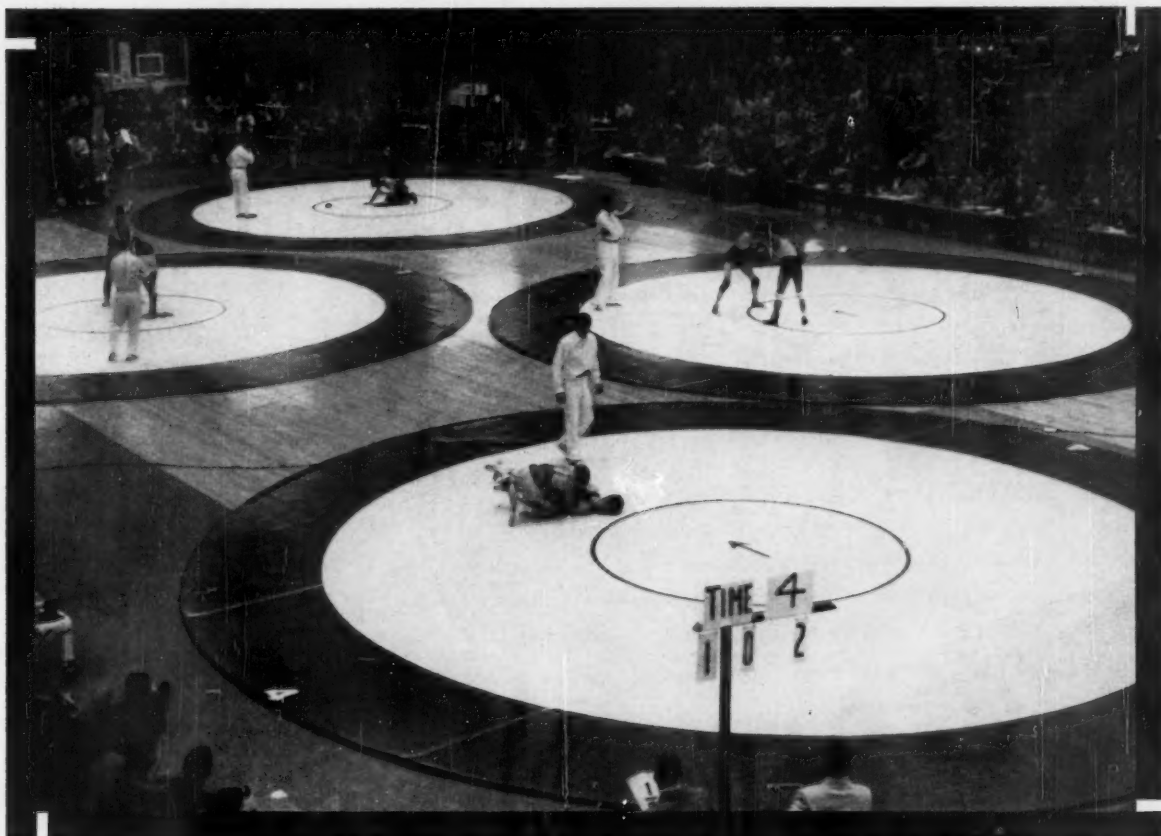
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## BADMINTON

Forgie, Hugh: *Badminton Illustrated*, Part 1, Oct., p. 63; Part 2, Nov., p. 16.

## BASEBALL

Abromowitz, Ivan: *Pitching Control Aids*, Apr., p. 8.  
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 Gutierrez, Bud: *Practical Baserunning and Bunting Drills*, Dec., p. 14.  
 Lai, William T.: *Baserunning and Sliding*, Apr., p. 7.  
 Mallette, Mal: *Out-Think the Hitter*, Mar., p. 28.  
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# COACHES' CORNER



**A**FTER getting blasted for six hits and seven runs in three innings, the Tiger right-hander, Paul Foytack, explained that his fast ball didn't have that little something extra—"and when that something extra is missing, generally a lot of baseballs are too."

*The ubiquitous Bobo Newsom* never hesitated to keep the batters uneasy and shaky up at the plate. "Did you ever deliberately knock anyone down?" he was asked.

"No, I never did," he replied with a grin. "But I recollect that the ball did."

*When the much-traded Mickey McDermott* was dealt away by the Yankees, he complained that Casey Stengel never gave him enough chances to pitch.

To which the Yankee skipper replied: "I notice wherever they gave McDermott enough chances to pitch, a lot of managers were fired."

*The Cubs went* into 1958 spring training with three Taylors—infielder Tony Taylor, catcher Sam Taylor, and pitcher Taylor Phillips.

"It figures," remarked Billy Herman. "They can't have too many taylors for all the holes they got in that club."

*Kansas City sports scribe* Ed Garich agrees with owner Arnold Johnson that the Athletics have no ties with the Yankees. "No ties, just defeats," he says.

*A kid rushed up* to one of the Athletics' players and asked for his autograph. He began fidgeting as the player wrote and wrote. "Look, kid," observed the player, "if you want my autograph you've gotta be patient."

The player's name? Arnold Portocarrero!

*A notorious bad-ball hitter*, Yogi Berra went fishing for a terrible pitch very high and very outside, and struck out. A deep silence greeted him on his return to the dugout. Yogi waited

vainly for word from someone. Silence reigned supreme. Finally the irrepressible catcher blurted:

"How can a pitcher that wild stay in the league?"

*In his first time* at bat in the majors, Johnny Temple took a called third strike. He whirled around and cussed out the ump, Larry Goetz. The veteran arbiter promptly tossed him out of the game.

"Why do you let the other ball-players object and not me?" demanded the hot-blooded rookie.

"I don't mind when the lions and tigers get on me," replied Goetz. "But when the nits and gnats do it, it's too much."

*Bobby Bragan*, the new Cleveland pilot, enjoys a good pun. When he was managing Pittsburgh, he traded Dale Long to the Cubs for Dee Fondy. He announced it in this fashion: "The absence of Long will make Pittsburgh hearts grow Fondy."

A nearby sportswriter, thinking of Cincinnati's fine trade with the Cubs for Don Hoak, remarked, "And the little acorn at third base has grown into a mighty Hoak."

*Coming up for his first turn* at bat as a major leaguer, the rookie looked at the umpire, Bill McGowan, and did a double take. "I hope you're a better ump up here than you were in the minors a couple of years ago," he blurted.

McGowan doffed his mask and said softly, "Young man, your major league debut has just been delayed by at least one day. Scram!"

*The Redlegs' pitching coach*, Tom Ferrick, believes in wind sprints and likes to run his charges' legs off. One afternoon he noticed pitcher Art Fowler leaning against the centerfield fence, panting like a marathon runner crossing the tape.

"What's the matter, Art?" he drawled. "Feeling a bit tired? You know you gotta keep running if you want to have a big year."

"Heck," groaned Fowler. "If running were so important, Jesse Owens would be a 20-game winner."

*Shaggy Snail Story* from Joe Wilmot of the *San Francisco Chronicle*: "Nine snails got together and formed a baseball team. Next day their first pieces of equipment arrived—nine Louisville Sluggards."

*Art Fowler* was to be the Redleg starter the day his old buddy, Glen Gorbous, returned to Crosley Field as a Phillie. As Glen passed the Redleg dugout, Fowler yelled, "You'd better stay loose today, Glen, because I'm gonna put one down your ear."

"Impossible," dead-panned Gorbous. "You don't think I can hit you with a pitch?" yelled the scornful Fowler.

"Nope," grinned Gorbous, "because I'm going to be sitting on the bench."

*Lefty Gomez* was clouted for a tremendous home run in a game against the White Sox. Returning to the dugout, he was accosted by his manager, Joe McCarthy.

"Was that a good pitch he hit?" McCarthy gritted.

Gomez looked his skipper square in the eye. "It was a beauty," he enthused. "Did you see him hit the cover off it?"

*Witty Nellie King*, former Pirate pitcher, convulsed the gathering at the Pittsburgh Dapper Dan Dinner last winter when he got to his feet and remarked: "I'm up here to get an award as the pitcher who backed up third base the most times in 1957!"

*The latest Yogi Berra* yarn is relayed by Joe Garagiola, former big league catcher turned broadcaster and MC. Joe took Yogi to a well-known restaurant in New York, but couldn't be seated immediately. A long line of diners stood behind the rope waiting for a table.

Finally Berra turned to Garagiola and snorted, "No wonder nobody comes here. It's too crowded!"

*A handy sports calendar* with which to record future athletic events and meetings is again being offered free by Master Lock Co., Dept. B, Milwaukee 45, Wisc. Running from Sept. 1958 through June 1959, it's 18½" x 24¼" in size and contains double eyelets for easy hanging. Write to Master Lock (at address given) for your free copy.

*Hole Hog*. The week-end hacker carefully addressed the ball and swung—producing a hole in which you could have buried a truck. He picked up the huge divot, hefted it in his hand, then turned to his caddy.

"What do I do with this?" he asked. "Take it home," the boy sighed, "and practice on it."

(Concluded on page 54)

Jim Crowley, Pennsylvania State Boxing Commissioner



Science Scores Again!  
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# Cyclo-Massage®

to help in the treatment of athletic injuries

Jim Crowley, Pennsylvania State Boxing Commissioner and one time member of Notre Dame's far-famed "Four Horsemen," speaks his mind on the need for modernizing our approach to the very real problem of handling athletic injuries.

"We'll never call on science to kick that extra point or deliver the knock-out punch," says Jim Crowley, "but athletic trainers, coaches, and every type of pro in the sports world can now avail themselves of a truly amazing invention that often helps rather decisively in the treatment of injuries—particularly bruises, strains and certain types of sprains. In fact, some trainers using CYCLO-MASSAGE report that this 'scientific helper' actually cuts recovery time from injuries as much as 50%."

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Cyclo-Massage is an incredibly gentle yet deeply penetrating massage action which, when combined with soothing, controlled heat, helps increase blood circulation in the area of application so effectively that it quickly helps reduce stiffness and pain. Complete penetration of both the soft tissues and bony structure is achieved through a complex three-way action—vertical, cyclical and hori-

zontal—that actually *radiates* gentle, soothing motion wherever applied.

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Cyclo-Massage has four other plus benefits for athletes

- (1) *helps induce peaceful, natural sleep in tense athletes*
- (2) *helps relieve pre-game nervous and muscular tensions*
- (3) *helps to overcome excessive fatigue attributable to muscular activity*
- (4) *helps relax sore, taut muscles.*



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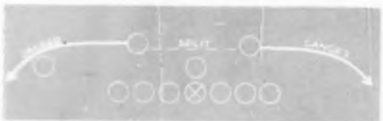
# Standardizing Defensive Adjustments

(Continued from page 11)

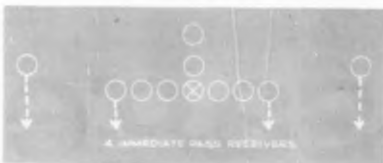
doesn't follow our principles.

## Automatic White:

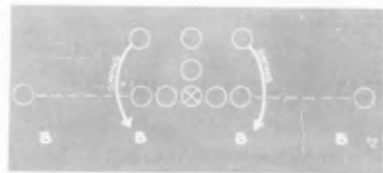
1. A split backfield converts to White because either halfback can be a dangerous runner or pass receiver to his outside.



2. Two backs removed from the backfield: Assume that the offense will have four immediate pass receivers if two backs are removed. Automatic White designates the four backs to drop back on pass defense.



3. Both ends spread: This formation forces two backs wide on pass defense, making it necessary for two secondary men to cover the middle.



4. Both ends spread, both backs removed: This formation also enables the opponents to have four immediate pass receivers.



## Automatic Red:

1. Right triangle: If a player is removed from the backfield and a triangle is formed to the right, Green or White convert to Red.

(See diag. top of next column)



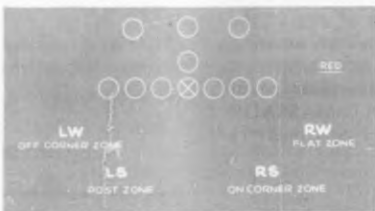
2. Left end spread: The spread end eliminates blocking power on his side.



**Automatic Green:** Green becomes automatic when the Automatic Red situations are reversed; a left triangle in the backfield or a spread right end.

**Adjustment Rules:** In order to make the color calls effective, one must develop adjustment rules for the ends and the secondary so that they'll align themselves according to the defensive principles. Naturally, spread ends and flanked backs create this problem.

The adjustment rules for the backs and ends will be demonstrated to one side. The same rules will apply to the same situation on the other side. Consequently, the flat zone rules will refer to the right wing if Red is the call, and to the left wing if Green is the call. The other secondary positions are treated the same (Diags. 7-8).



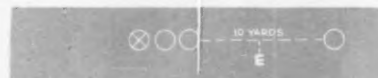
Diag. 7 is shown directly above. Diag. 8, the Green call, is not shown. In Green setup, L.W. takes the flat zone, L.S. the on corner zone, R.S. the post zone, and R.W. the off corner zone.

## End Rules:

1. If the offensive end is split out to five yards, play head on him.



2. If the offensive end is spread 10 yards or more, split the distance between him and the inside man.

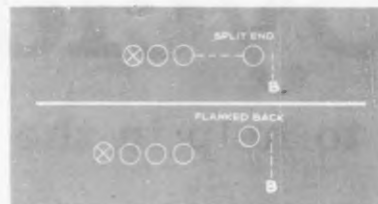


3. If a back is flanked inside a spread man, play head on him.



## Flat Zone Rules:

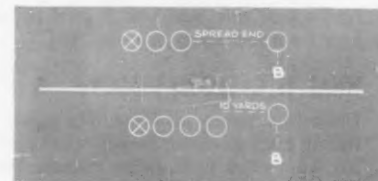
1. If a back is flanked out to five yards or if an end is split out to five yards, play slightly to the outside.



2. If there are a spread end and a flanked back to your side, play head on the outside man.



3. If the end is spread 10 yards or more or if a back is flanked 10 yards or more, play head on him.



## On Corner Zone Rules:

1. If there's a flanked back or a spread end on your side, split the distance between him and the inside man.

(See diag. top of page 44)



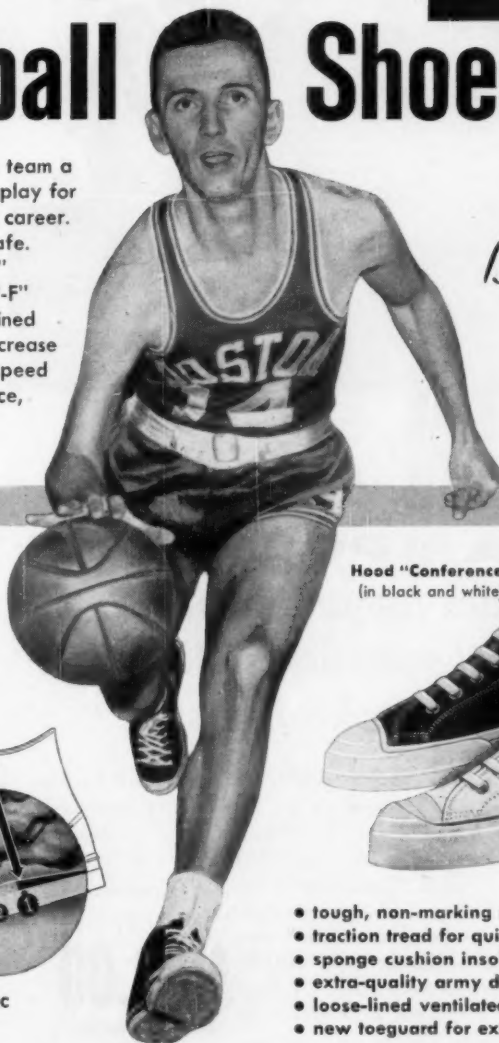
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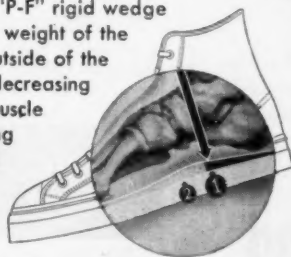
*Bob Cousy*

Captain of the  
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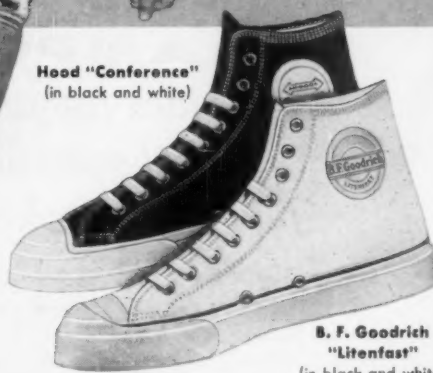
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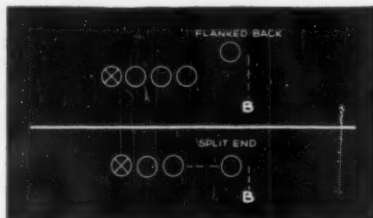


2. If there's a spread end and a flanked back on your side, split the distance between the outside and inside man.



### Off Corner Zone Rules:

1. If the end is split five yards or if a back is flanked out five yards, play slightly to his outside.



2. If the end is spread 10 yards or more, play him slightly to the inside.



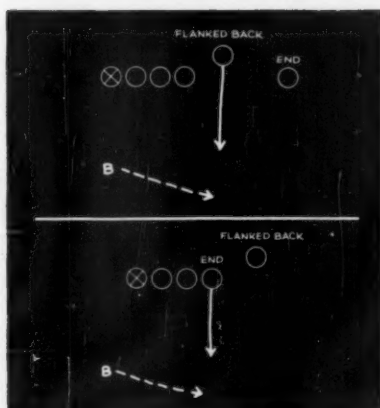
3. If there are a spread end and a flanked back on your side, play slightly to the outside of the wider man.



**Post Zone Rules:** If there's a flanker, rotate to a position that will enable you to intercept him or the end on that side if they sprint into your zone. (Diag. on next page.)

Standardized defensive adjustments may be regarded as the counter to offensive rule blocking. Adjusting to any offensive formation is as important to the defensive team as blocking assignments to the offense.

Reference to the adjustment chart and to the defensive principles is required to establish the adjustments for all formations.



### ADJUSTMENT CHART

Rules for Changing the Pre-determined Color Calls

#### Automatic White:

1. Split backfield
2. Two backs removed from the backfield
3. Both ends spread
4. Both ends spread, both backs removed

#### Automatic Red:

1. Right triangle in the backfield
2. Left end spread

#### Automatic Green:

1. Left triangle in the backfield
2. Right end spread

#### Adjustment Rules

##### Ends:

1. End split 5 yards—head on
2. End spread 10 yards—split the distance
3. Back flanked inside of a spread end—head on

##### Flat Zone:

1. Back flanked 5 yards—slightly outside
2. End split 5 yards—slightly outside
3. Spread end and flanked back—head on outside man
4. Back flanked 10 yards or end spread 10 yards—head on

##### On Corner Zone:

1. Flanked back or spread end—split distance to inside man
2. Spread end and flanked back—split distance between outside and inside man

##### Off Corner Zone:

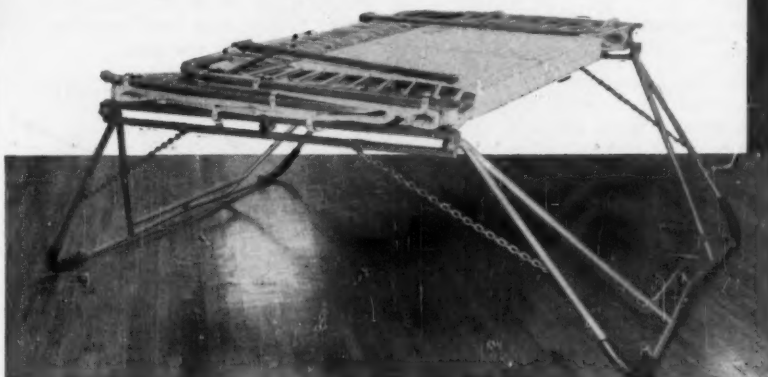
1. End split 5 yards—slightly outside
2. Back flanked 5 yards—slightly outside
3. End spread 10 yards—slightly inside
4. Spread end and flanked back—slightly outside of widest man

##### Post Zone:

Flanker—rotate to position enabling you to intercept flanker or end on that side

when not in use...

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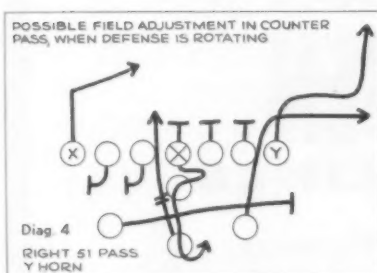
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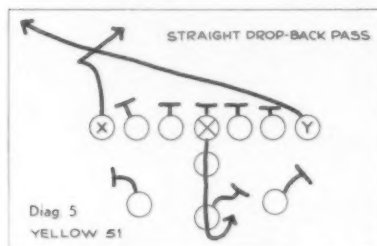
# Multiple Pass Patterns

(Continued from page 13)



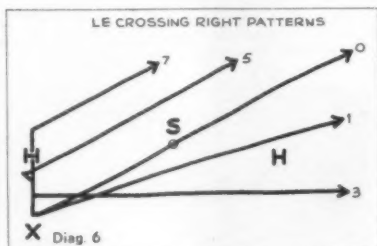
color to designate the drop-back pass and the type of protection for the passer. Note **Diag. 5**. Our pass plays were run off in this manner as rapidly as the running plays.

The use of a color led to what we



thought was a good plan for calling automatic passes from the line of scrimmage. This was accomplished by means of live and dead colors, as in the running game.

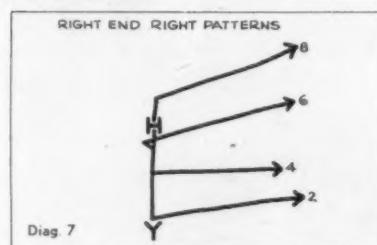
Once a receiver had been given a specific route, he remained on that route until the ball left the passer's hand. If he were on a short route, i.e. a route in which he could receive the pass at any time, he had to be ready for the pass.



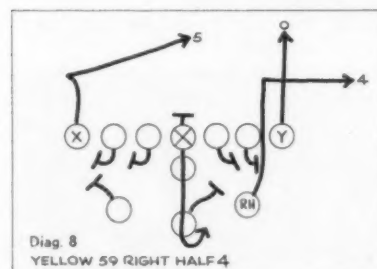
Receivers on the longer routes had to be ready immediately after their break on the final leg of their pattern. When the quarterback desired to have his left end in the right flat, he would assign him to

route No. 3. Note **Diag. 6**, Left End Crossing Right Patterns.

When the qb wanted his right end up, in and away, he'd assign him to route No. 6. Note **Diag. 7**, Right End Right Pattern.



A halfback or a fullback would be assigned to any of these routes without setting up as a flanker by merely calling the end routes and adding the back's assignment. An example of this usage would be





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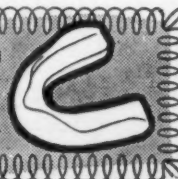
Incidence of dental injuries to athletes (All Sports) ..... 73 out of 2,800

Incidence of dental injuries to FEATHERBITE Wearers ..... 1 out of 2,800

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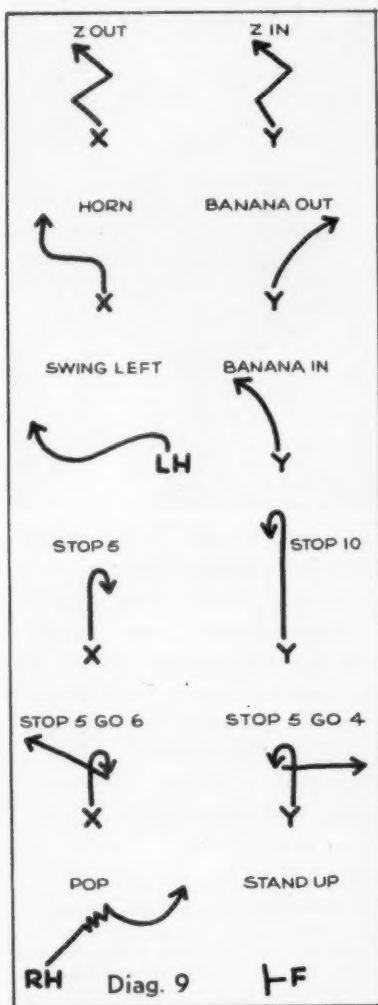
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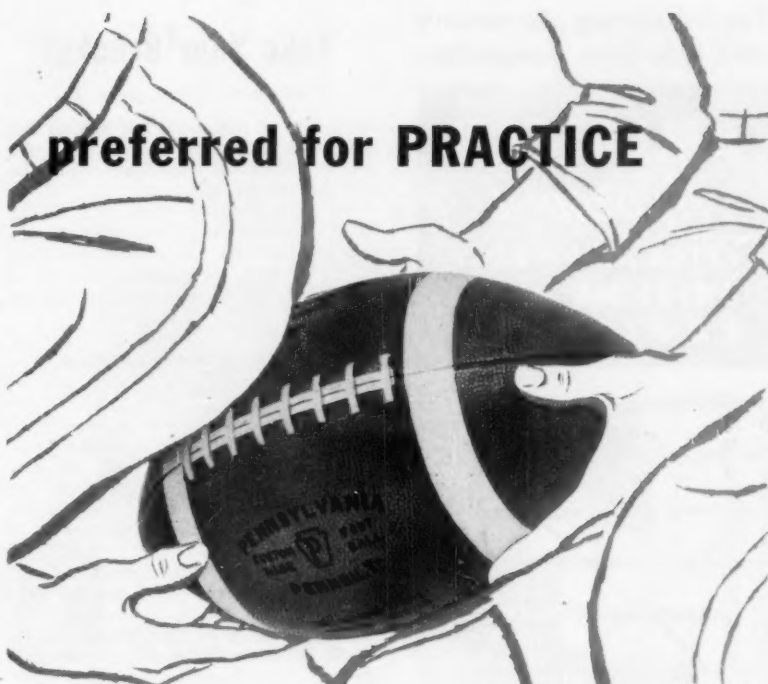


"Yellow 59 Right Half 4." The line would use yellow pass protection blocking and the fullback would protect to the side weakened by the decoying or receiving back. Note **Diag. 8**.

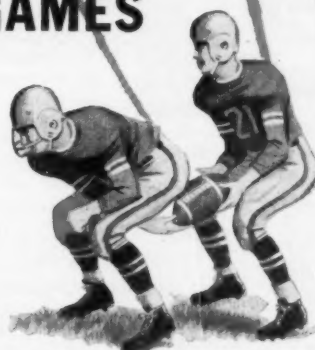
We named the other necessary routes, such as Zee in or out, Stop 5, 10, 15, etc., Banana, Swing, Horn, Stand Up, and Pop. Note **Diag. 9**. With the addition of these descriptive passing routes to the numerical passing routes, it was then possible to operate a very flexible passing game.



Just how one would want to utilize these possibilities is an individual matter. I introduced these passing ideas to three Oregon coaches, who adopted them for high school use. They were: Tom DeSylvia of Jefferson High, Portland, 1957 State A-1 champions; Frank Buckiewicz of Seaside Union High, Seaside, State Runner-up in the A-2 Division; and Bob Douglas of Grant High, Portland, Runner-up for the city title.



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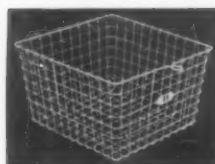
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## Make Your Breaks!

(Continued from page 16)

twice did an opponent get behind our defensive halfbacks, and in both cases we were following so closely that the pass was overthrown.

By way of comparison, we hit on 33 of 79 passes for a total of 347 yards. Six completions were for more than 20 yards, and three others for more than 30 yards. We scored three tds on passes.

### NOT SCORING WHEN INSIDE OUR OPPONENTS' 10-YARD LINE

We did a good job of scoring once inside our opponents' 10-yard line. We crossed the opposition's 10-yard line 14 times, including the times we did it on second, third, or fourth down. Of these 14 times, we scored 11 times.

One reason for this success was that in our scrimmages we'd put the ball down on the 10, 9, or 8-yard line, and give the first team two or three downs to score. We'd also put the ball on the 1 or 2-yard lines and stack 9 and 10 men on the defensive line. Then we'd give the first team one or two downs to score through the line.

We also worked on certain plays designated as scoring plays that were to be used whenever we couldn't move the ball with our basic offensive plays inside the 10.

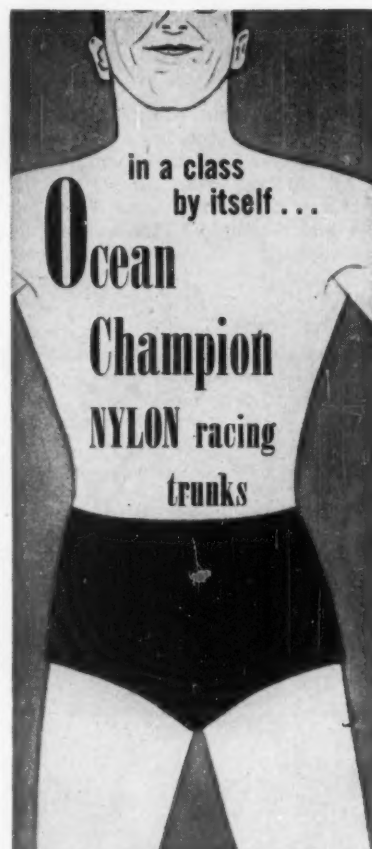
Our defensive unit did a fine job of stopping the opposition once they got inside our 10-yard stripe. Of the 10 times our opponents had a first down inside the 10, we held them seven times. In one of the games we won 7-0, we stopped the opponents four times inside our 10. Three times we held for downs, and the other time we hit their fullback in the backfield on the 1 and recovered his fumble in the end zone.

Not counting this one game then, only six times in the other eight games did our rivals gain a first down inside our 10. Three times we held them, and of the three other times (when we were scored against) one was against our second and third team in the last minutes of the game we won 38-13.

We worked very hard with our defensive unit. They realized that when the enemy got inside the 10 he was in scoring territory. Our line charged harder and lower in these instances, and the opposition had to earn every yard they got.

### NEVER LOSING YARDAGE ON A PLAY

Although we realize it's next to impossible to go through a game against an equally strong opponent without losing yardage once in a while, we still stressed the fact that if every player blocked the right man on all our plays, and if every boy blocked hard, we'd never lose yardage on a play.



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We ran the ball 343 times from scrimmage, exclusive of passes and punts, and were thrown for losses a total of 37 times. These losses amounted to 167 yards. Of the 37 times we were thrown behind the line, only five times was the loss more than seven yards.

At the same time, our defensive team threw opponents for losses on 71 occasions for a total of 321 yards—catching opposing runners behind the line for seven yards or more 26 times.

#### NOT BEING PENALIZED

Although our opponents had the advantage over us in yards lost on penalties, we still improved on our 1956 statistics. In 1957 we were penalized 30 times for a total of 240 yards, while our opponents were penalized 20 times for 160 yards.

In 1956, by way of contrast, Reynoldsville was assessed 390 yards in 10 games. So we feel we did make some improvement in cutting down on the number of penalties handed out to us.

#### POOR CENTERS ON PUNTS AND EXTRA POINTS

This is another department in which we have much room for improvement. Four times last season we didn't get a punt away because of a poor pass from center, and five other times we got the boot away only because of a fine effort on the part of our kicker. It was mentioned previously that we had three bad snaps on our extra points which resulted in our missing the placekick.

Though we didn't keep statistics on our opponents, we felt they did much better on their snapbacks than we did.

We feel very strongly that the extra work and effort on the part of both the coaches and the players in emphasizing the importance of "making your own breaks" paid off in a big way for us last year.

Competing in the Pennsylvania Interscholastic Athletic League, District IX Southern Conference, we won six consecutive conference games, and set a new league record by having only 13 points scored against us in league competition.

But the most amazing thing about our season was the fact that of our eight overall wins, three were by scores of 7-0, one was by the score of 12-6, and another by the score of 14-7. The other three wins were by relatively easy 21-0, 38-13, and 34-0 margins. The only loss we suffered all year was a 0-7 affair.

I was accused of having a corner on all the four-leaf clover fields in Pennsylvania, of carrying a rabbit's foot and a horseshoe in each pocket during our football games, and earned the nickname "Lucky Harry." All of this because Reynoldsville seemed to get all the breaks possible to be had in football. But I can assure you that we set out to *deliberately* encourage these breaks to come our way if at all possible.

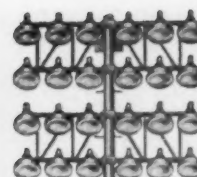


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## Single Wing Line Blocks

(Continued from page 9)

drive by alternating steps. It's this follow-through that makes a good shoulder block.

The most common fault of a shoulder block is to hit and brace. This gives the defensive man time to regain balance and fight back into the play.

In making contact, the blocker should aim for the waist, trying to get under the opponent's hands and arms. We like to think we're blocking from a low plane to a high plane.

(b) **Post and Turn Block** (Hard Shoulder Block). We use a post block to stop the defensive man's charge. It's the post man's responsibility to control the opponent until the turn man starts working him down the line of scrimmage.

In the past, we used to let the post man give ground by stepping back with one foot and bracing. We've changed this and now have the post man step forward. This change became necessary when a lot of teams began playing their defense off the line of scrimmage or who hit and controlled.

The post man snaps up with his shoulders square and forearm extended 90° from his side with fists resting high on his chest. His forehead should rest in the pit of the defensive man's stomach. With the arms and head in this position, you have a "Y" to catch the defensive man.

When the post man feels pressure from the turn man, who's using a hard shoulder block, he slides his head to the side and turns tail, putting him in position to work with the turn man in taking the opponent down the line of scrimmage. With both offensive men using the hard shoulder block, we have a good block with which to remove the defensive man.

The most common fault in this double-team block is a slow reaction by the post man. If he's slow to sense the pressure from the turn man and doesn't close the seam between himself and the turn man, the defensive man can whip both the blockers.

(c) **"Low" Block and Hard Shoulder Block.** We like to use this block on the man who plays between our weak-side end and tackle. (These men split one to two yards, which is very effective on reverses.) This is a double-team block fashioned after the old high-low block.

The action of the man throwing the low block must be very quick. He wants to get the attention of the defense man and have him play him. If the offensive man throwing the "low" block is to the right of the defensive man, he'll take a short step forward and to the left with his right foot. This will give him a lot of coil in his right leg, which he pushes off on.

The blocker forms a "Y" with his left arm and left leg and aims for the defensive man's left knee. The left arm and shoulder shoots by the knee and the offensive man hooks the opponent's left leg in the crutch formed by the left arm and left leg. After the low blocker strikes at the knee, he slides down to the ground and ends up with his stomach on the ground.

With the defensive man playing him and letting his momentum go down with the low block, the hard shoulder blocker strikes waist high and knocks the defensive man over the back of the low blocker. When the low blocker feels the man going over, he picks himself up and goes into the secondary for another block.

### DEPENDS ON SHORT STEP

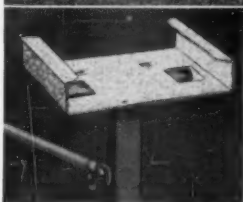
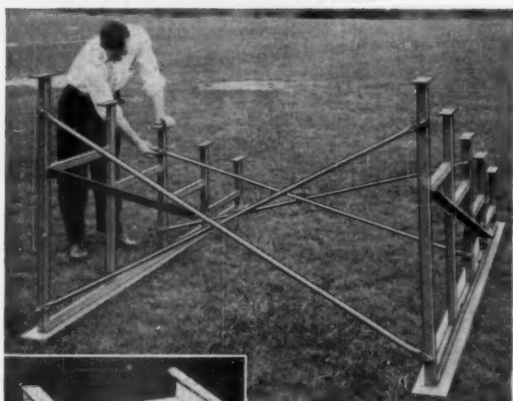
The success of this double-team block depends on the short step which the low blocker must take to get position on the defensive man.

(d) **Wedge Block.** Wedge blocking is done by three or more men. On the goal line, we use it from end to end. In open field play, we have fullback bucks where three men form the wedge.

In executing this block, it's most essential for the middle man, who's the apex of the wedge, to hit straight ahead at the defensive man and straighten him up. The apex also stops the charge of the defensive man. Continual leg drive on the part of the apex at this point is most important or the defensive man may lick the three men.

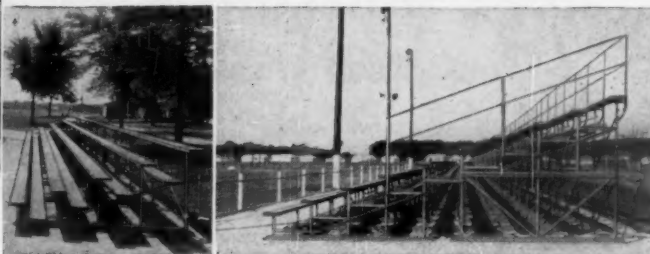
The outside men throw hard shoulder blocks into the sides of the defensive man and drive him straight back. The apex must continue to drive or he can be pinched by the outside men. This block has been very effective in short gain situations.

The next two blocks are retaining blocks which are used only to retain



(ABOVE) Assembly of steel structure is completed by attaching cross braces to frames with wing nuts.  
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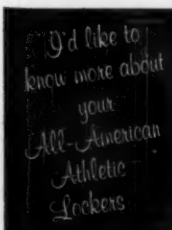
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a man on the line of scrimmage. Since the play isn't coming over the defensive man's position, we find no harm in keeping him right there on the line of scrimmage. Our center and tackles use this block a great deal.

2. (a) **Front Pivot Block.** This is a good block on an aggressive defensive man. The harder he charges, the easier it is to contain him.

The front pivot block is a single block in which the offensive man's objective is to engage and retain the opponent on the line of scrimmage long enough for the ball-carrier and running interference to circle him. It's permissible for the offensive man to retreat or to give ground slightly if the opponent is a charging and penetrating type of defensive man.

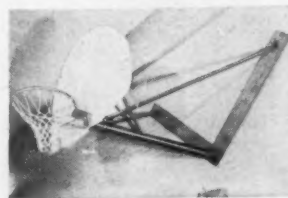
In executing the block, the offensive man takes an oblique step with his right foot to the right. The purpose of this step is to put him in position. Its length, hence, will be determined by the distance of the defensive man from the blocker. Speed is essential.

The offensive man dips his left shoulder and reaches forward with his left elbow for hooking purposes. He remains low and crouched well over; his right foot is placed flat on the ground; and his right knee is well bent in order to provide a good deal of coil in his right leg. This is where he gets his power to block.

Just as soon as his right foot strikes the ground, he drives from a low position upward, engaging the opponent with his abdomen against his near thigh and bringing his left knee up to form the rear part of the hook. Simultaneously with the charge, he drives his left knee forward in such a way that his knee and ankle form a line parallel to the ground. Then he continues to drive into the opponent from his

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right leg, retaining the opponent on the line of scrimmage.

(b) **Reverse Pivot Block.** This block is called a reverse pivot block because the original heading of the offensive man is reversed. Its purpose is the same as the front pivot block—to retain the defensive man on the line of scrimmage. It's effective against a man who reacts to fakes and pressure.

To execute the block, the offensive man steps directly at the opponent with his left foot. Speed is essential. The offensive man drives his head and right elbow in front of and beyond the opponent. He remains low and crouched well over; his foot is placed flat on the ground; and his knee is well bent with considerable coil. Again, this is where he gets the power to block.

Just as soon as his left foot strikes the ground, he whips his right knee forward and in behind the opponent. He engages the opponent's near thigh with his abdomen, and makes the block with enough snap and drive to carry the block one yard through the opponent. He continues to drive into the opponent from his left leg and keeps working around him, making sure to keep his body between the opponent and the ball-carrier.

In the next category of blocks, we want all linemen to be able to throw a good crossbody block. Football games are won in the secondary and we stress downfield blocking every day in our drills. Our linemen must get in the secondary to block or they don't play for us.

3. (a) **Crossbody Block.** On the line of scrimmage, where our guards pull and block, they use a hard shoulder block, crossbody block, or reverse body block. In throwing the crossbody block in close line play, our guards head for a point where they anticipate the defensive man will be. We call this getting to the "crossroads."



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2215-Lake St.

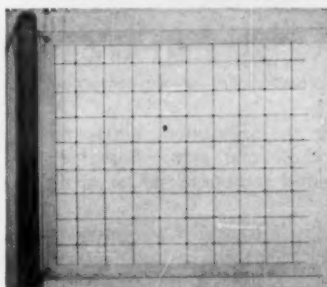
Niles, Mich.

**BIG NEWS IN NETTING FROM { GOLD MEDAL INVINCIBLE**

ANNOUNCING A NEW, IMPROVED

# Linen Volleyball Net

**Beats All Competition in Quality and Price**



Note how tie strings hold the net in tension.



"A Net for every purpose... a purpose for every net."

**THE LINEN THREAD CO., INC.**

418 GRAND STREET • PATERSON 12, N. J.

New York

Chicago

Boston

San Francisco

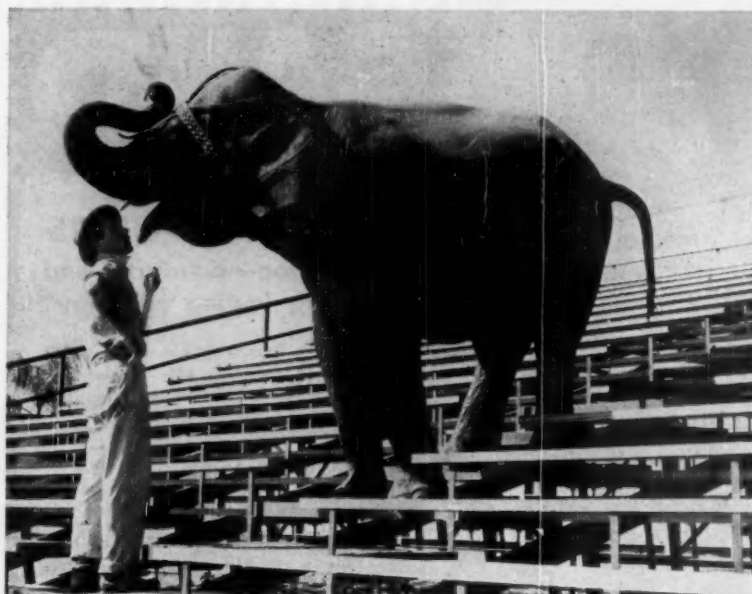
Baltimore

**Tougher, Stretchfree, More Durable!**—This new, standard, 32-foot volleyball net is made of fine linen seine twine, and combines linen's big advantages in a net that looks better, lasts longer. It's priced low, too—a more economical net in many ways. Offered in two styles by both of America's two leading lines of sports netting...

**GOLD MEDAL Style #LD-3230-VBC** (steel cable), and **#LD-3230-VB** (rope cable).

**INVINCIBLE Style #LB-3230-VBC** (steel cable), and **#LB-3230-VB** (rope cable).

See Your Nearest Dealer



**Sit right down, lady... it's a REEVES BLEACHER!**

**BLEACHERS & GRANDSTANDS**

Manufactured by REEVES STEEL, INC.

205 N 12th Street • P O Box 1163 Tampa 1, Fla. • Tel 2-0651

## YOUR BEST BUDGET BUY in safe, comfortable, steel seating

Check  
These  
Outstanding  
Features



- ✓ **SAFETY**—Like all Hussey seating, the new economy Model 10 is engineered to more than meet the most rigid safety standards. All steel frame with firmly attached seat and footboards of strong smooth Douglas Fir.
- ✓ **COMFORT**—Wide 24 inch spacing between the rows allows the seating comfort of a conventional straight chair and more room for spectator passage along the rows. Rounded seatboard edges give additional seating comfort.
- ✓ **FLEXIBLE**—Panel type construction gives built-in flexibility. Stands available in any required length from 2 to 20 tiers high. Front walkways, hot dip galvanized steel finish and many other variations available. Model 10 is the most economical type of safe steel seating on the market and backed by the Hussey guarantee of quality.

Write for FREE Hussey Seating  
Catalog showing various models.


IRON WORKERS



SINCE 1835

**HUSSEY MFG. CO., INC.** 581 Railroad Ave. NORTH BERWICK, MAINE

Also manufacturers of ROLL-OUT Gym Seats



# SAND KNIT

## FOOTBALL UNIFORMS

**styled for action—comfort—and  
long lasting economy!**

A full line of quality made football pants and jerseys!  
The newest in styles and fabrics in a wide range of sizes,  
school colors, and combinations—featuring

- **SKILLFUL DESIGN** to insure perfect fit with full freedom of action
- **EXPERT TAILORING** for outstanding comfort and appearance
- **QUALITY MATERIAL** to provide long lasting durability and economy

SEE YOUR SAND KNIT DEALER  
or write for additional information.

**FREE!** Complete catalog of athletic clothing on request!

**SAND KNITTING MILLS CORP.**

Exclusive Athletic Knitwear and Clothing

BERLIN, WISCONSIN

At this point, the offensive man lays out, forming a "Y" with his leg and arm. He turns his stomach up into the defensive man and lets the latter run into the block. The momentum of the opponent will turn the offensive man over. This causes the opponent to tumble over the offensive man, as the latter slides toward the ground. We have had good results with this block.

Another form of crossbody blocking is used in the secondary. We want our men to go into the secondary with all the speed they can muster. When they approach a defensive man at the "crossroads," we want them to lay out and hit the defensive man with the hip pads used as a battering ram.

The blocker should aim just above the knees. As he goes through the man and is falling toward the ground, there should be enough momentum to knock the man off his feet—especially if the defensive man must come through the blocker to get to the ball-carrier.

(b) **Reverse Body Block.** The reverse body block used by our guards is a measure of last resort. Our guards are instructed to pull out and use a hard shoulder block to knock the defensive man out of the hole under attack.

In blocking ends, however, we've found the guards slipping off their block and letting the defensive end make the tackle. To overcome this, we instruct the guards to hit the end with a hard shoulder block. If the guard feels he's slipping off the man, he'll drop his shoulder and whip his leg and body up across the end and contain him until the ball-carrier is up in the hole. The guard usually ends up looking into his own backfield; thus the name reverse body block.

We've found this to be very useful. Our guards know that as long as the defensive man is trying to fight them with his hands, he doesn't have his hands on the ball-carrier.

## "Coaches Corner"

(Continued from page 40)

**Every spring** the Giants used to stop off at West Point for an exhibition game against the Cadets. During the reign of Leo Durocher, the Cadets used to love to ride him.

One afternoon a leather-lunged West Pointer roared, "Hey Leo, how did a runt like you ever get into the big leagues?"

Durocher pinned back his ears with, "My congressman appointed me!"



14th ANNUAL  
**NEW YORK STATE  
Coaching School**

Sponsored by New York State Public  
High School Athletic Association

at Syracuse University, N. Y.  
August 25, 26, 27, 28

Intensive Coaching Courses by

**FRAN REAGAN**  
Villanova University, "Football"

**CLARY ANDERSON**  
Montclair (N. J.) H. S., "Football"

**BUD MILLIKAN**  
U. of Maryland, "Basketball"

**JOHN EILER**  
E. Stroudsburg T. C., "Soccer"

**JOSEPH SCANDURA**  
Syracuse University, "Wrestling"

plus Baseball and Training

Also Football Rules Interpretations,  
Sports Films, Round Table Discussions

\$45 (includes room-board on campus)

For further information, write

**PHILIP J. HAMMES**  
Proctor High School, Utica, N. Y.

5th ANNUAL  
**CONCORDIA  
COACHING SCHOOL**

Aug. 10-13 Moorhead, Minn.

**FOOTBALL**

**BUD WILKINSON**, Oklahoma  
**JOHNNY SANDERS**, N. Hollywood H.S.

**BASKETBALL**

**TEX WINTER**, Kansas State  
**BRANCH McCracken**, Indiana

**WRESTLING**

**WALLY JOHNSON**, Minnesota

For further information, write

**J. M. CHRISTIANSEN**, Ath. Dir.  
Concordia College, Moorhead, Minn.

**COLORADO H. S.  
COACHING SCHOOL**

at Pueblo Jr. College, Pueblo, Colo.

August 13, 14 and 15

featuring

**LEN CASANOVA**  
University of Oregon, "FOOTBALL"

**JOHNNY WOODEN**  
U.C.L.A., "BASKETBALL"

TUITION: \$10

**DON DesCOMBES**

525 W. Midway Blvd., Broomfield, Colo.

# SPEED CLEAT

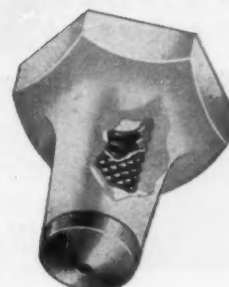
## TOUGH LIGHTWEIGHT NYLON

Coaches—Don't burden your players with extra weight—equip your squad with the lightest cleat available for rocket action. Brilliant color selection for quick identification between various units of your squad—Distinguish between game shoes and practice shoes.

- FULL COLOR RANGE—RED, GOLD, WHITE (NATURAL)
- ONLY NYLON CLEAT WITH LOCK-TIGHT TEETH
- LOCKED-IN STEEL TIP AND ALUMINUM THREAD FOR LIGHTNESS

See Your Dealer or Write Direct

**OHIO ATHLETIC SPECIALTY CO.**  
133 BUCKEYE ST. ELYRIA, OHIO



## MASTER COUPON

To obtain free literature and sample goods, carefully check items desired and mail coupon directly to Scholastic Coach, Advertising Dept., 33 W. 42 St., New York 36, N. Y. Numbers in parentheses denote pages on which the advertisement may be found.

**AALCO MFG. (52)**

- ☐ Catalog of Complete Sports Line

**AMERICAN PLAYGR. (48)**

- ☐ Literature on Heavy-Duty Dressing Room Equip.  
☐ Literature on Aluminum Diving Board

**AMERICAN WIRE (56)**

- ☐ Folder on Locker Baskets and Uniform Hanger

**AUSTIN FENCE (16)**

- ☐ Brochure on Baseball Backstops and Combination Goals

**BIKE WEB (18-19)**

- ☐ Trainers Handbook  
Write for Sample of Trainers Supplies on School Letterhead

**BROWN, M. D. (53)**

- ☐ Information on Electric Scoreboards

**BUCKNER MFG. (20)**

- ☐ Information on Large Area Sprinkler Irrigator  
☐ Information on Rotary Pop-Up Sprinklers

**CHAMPION KNITWEAR (26)**

- ☐ Catalog of Physical Education Uniforms

**CHICAGO ROLLER SKATE**

- (Inside Back Cover)  
☐ Details on Roller Skating Programs and Equipment

**CINE-O-TONE (52)**

- ☐ Information on Speedy Film Processing

**COACHING SCHOOLS (55)**

- Further information on  
☐ Colorado H. S.  
☐ Concordia Coll.  
☐ New York St.

**CYCLOTHERAPY (41)**

- ☐ Catalog of Cyclo-Massage Equipment

**DE BOURGH MFG. (51)**

- ☐ Information on All-American Athletic Lockers

**FEATHERLAX (46)**

- ☐ Information on Featherbite Protective Mouthpiece

**HILLYARD CHEMICAL (4)**

- ☐ How to Plan Your Gym for Favorite Sports

**HODGMAN RUBBER (27)**

- ☐ Catalog of Rubberized Parkas, Capes, Warm-Up Jackets

**HUSSEY MFG. (54)**

- ☐ Illustrated Seating Catalog

**IVORY SYSTEM**

- (Back Cover)  
☐ Monthly Bulletin, "The Observer"

**JENNISON-WRIGHT (39)**

- ☐ Installation Data and Specifications on Kreolite Gym Floors

**LAURENS LAB. (56)**

- ☐ Literature on Portable, Non-Electric Whirlpool

**LINEN THREAD (53)**

- ☐ Catalog of Nets for All Sports

**NATIONAL SPORTS (52)**

- ☐ Complete information on Jim-Flex Gym Mats

**NISSAN TRAMPOLINE (44-45)**

- ☐ Catalog of New Streamlined Trampolines  
☐ Information on "Little Giant" Trampoline

**OCEAN POOL (48)**

- ☐ Catalog on Swim and Pool Equipment

**OHIO ATH. SPECIALTY (55)**

- ☐ Information on Football Speed Cleat

**PENNA. ATH. PROD. (47)**

- ☐ Catalog of Pennbilt Footballs

**POWERS REGULATOR (17)**

- ☐ Booklet, "Safer Showers"

**RAWLINGS (3)**

- ☐ Football Catalog

**REEVES STEEL (53)**

- ☐ Literature on Bleachers and Grandstands

SEE PAGE 56 FOR OTHER LISTINGS AND FORM FOR SIGNATURE

# LOCKER BASKETS AND SPACE SAVING UNIFORM HANGERS



All welded steel wire. Molten Metal dipped (tin alloy) after fabrication to insure maximum corrosion resistance. Available in sizes to meet your locker room needs. Write for descriptive literature and school prices.

**AMERICAN  
WIRE FORM CORP.**  
267-273 Grant Ave.  
Jersey City, New Jersey

# TREAT INJURIES! WITH PORTABLE NON-ELECTRIC WHIRLPOOL BATH

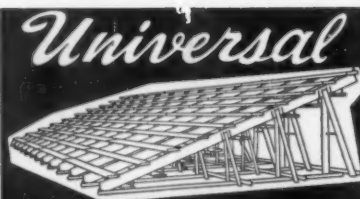
Treat sprains, stiffness, sore muscles and other conditions requiring moist heat and massage. Set up in shower area (illus.) or bath tub. Recommended by coaches, trainers, doctors. Unconditionally guaranteed.

**\$49.95** Complete

Write for literature  
and our **FREE 10  
DAY TRIAL PLAN**

**LAURENS LABORATORIES**

Dept. SC, 1801 Eutaw Place, Baltimore 17, Md.



# Portable Wood and Steel Bleachers

FREE CATALOG

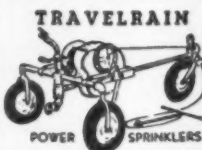
**UNIVERSAL BLEACHER CO.**

Champaign, Illinois

# AUTOMATIC IRRIGATION

"Set it and Forget it"

Inexpensive—Designed for Athletic Fields.



Waters areas up to 100 x 500 ft. in one setting. Only 10 minutes to set or removal. Pulls itself along thru winding up a steel cable—Water Powered—Shuts off water automatically.

Write for information and free trial offer

# TRAVELRAIN

342 N. Canon Drive, Beverly Hills, California  
Established 1935

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# MASTER COUPON

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(Numbers in parentheses denote page  
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RIDDELL, JOHN T.  
(Inside Front Cover)  
☐ Information on Quality  
Line of Football Equip.

ROBBINS FLOORING (52)  
☐ Information on Iron-  
bound Continuous Strip  
Maple Gym Floors

SAFWAY STEEL (51)  
☐ Catalog on Telescoping  
Gym Seats and Steel  
Bleachers

SAND KNITTING (54)  
☐ Complete Catalog of  
Athletic Clothing

SNYDER TANK (20)  
☐ Information on Grand-  
stands and Bleachers

TRAVELRAIN (56)  
☐ Literature on Automatic  
Power Sprinkler

U. S. RUBBER, Ensolite (37)  
☐ Ensolite for Wrestling  
Mats

U. S. RUBBER, Fiberthin (1)  
☐ Weatherproof Covers for  
Athletic Fields

UniMAC (2)  
☐ Information on School  
Laundry Equipment

UNION METAL (49)  
☐ Catalog of Monotube  
Floodlighting Poles

UNIVERSAL BLEACHER (56)  
☐ Catalog of Portable  
Bleachers

WELLS LUMBER (28)  
☐ Literature, "Money-  
Making Gym Floors"

WIGWAM MILLS (50)  
☐ Literature on Elasticized  
Athletic Socks

WILSON (6)  
☐ Catalog

NAME \_\_\_\_\_ POSITION \_\_\_\_\_

(Principal, coach, athletic director, physical director)

SCHOOL \_\_\_\_\_ ENROLLMENT \_\_\_\_\_

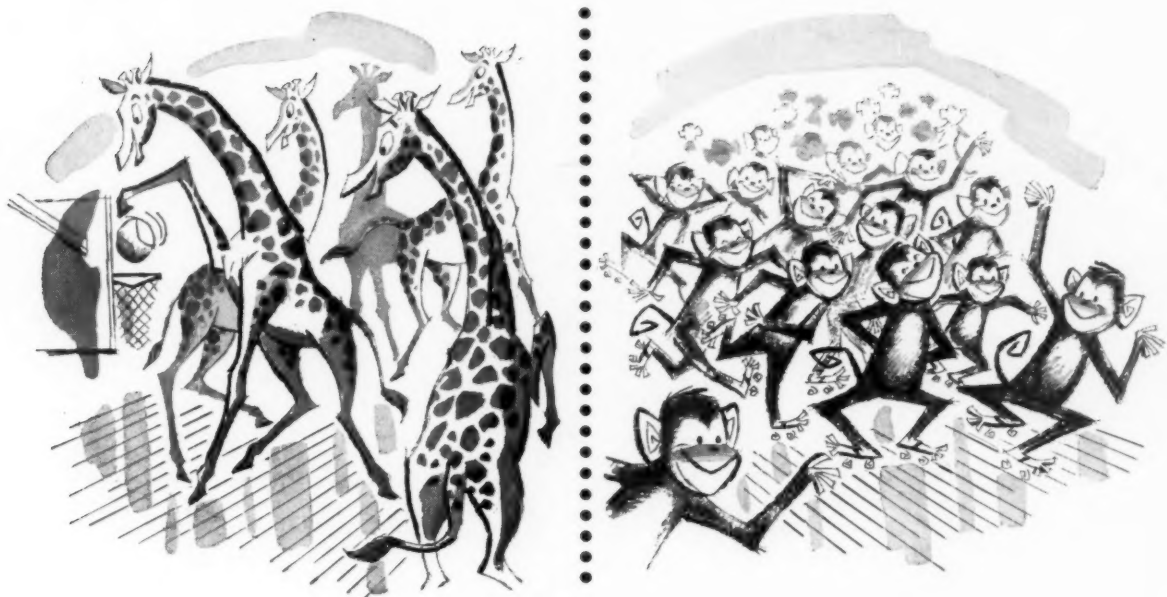
ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ ZONE \_\_\_\_\_ STATE \_\_\_\_\_

No coupon honored unless position is stated

June, 1958

# Space for 10 or 210?



## they *All* can have Active fun in your gym

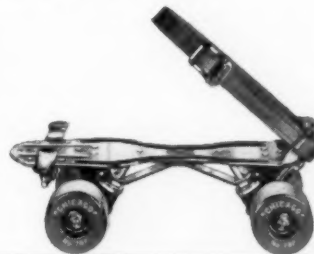
Roller skating is more fun than a barrel of monkeys, and it entertains and exercises more people in less space than any other sport.

Little equipment is needed, little supervision is necessary.

That's why more and more schools are making roller skating a definite part of their physical education and recreation programs.

### NEW RUBBER-PLASTIC WHEELS ARE KIND TO GYM FLOORS

These new Duryte rubber-plastic wheels outwear others and are guaranteed not to mar or scratch the floors. "Chicago" has a skate designed for any type of floor surface or finish. Write today for free details on roller skating programs and skating equipment.



**"CHICAGO"**

*Roller Skates*

Chicago Roller Skate Co., 4478-F W. Lake Street, Chicago 4, Ill.



# *Why Gamble!*

**Send all your sports equipment to**

## **IVORY SYSTEM**

**Before school closes for the summer, take advantage of Ivory System's ...**

SOLE DISTRIBUTORS  
of

**IVOR-SAN**

Offers positive protection  
against athlete's foot in shoes  
and locker room

**DAWHIDE**

Longest wearing and toughest  
lacing material ever made for  
athletic shoes

- ★ **EXPERT RECONDITIONING**
- ★ **PROTECTION AGAINST MOTHS AND MILDEW**
- ★ **INSURANCE AGAINST FIRE AND THEFT**

**Nowhere else will your equipment  
be so expertly reconditioned ...  
so adequately protected.**

**AMERICA'S OLDEST and LARGEST  
RECONDITIONERS of ATHLETIC EQUIPMENT**

*The* **IVORY SYSTEM** *inc.*

PEABODY

MASSACHUSETTS